

6/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B18Ag1

TTA GAG ACC CAA TTG GGA CCT AAT TGG GAC CCA AAT TTC TCA AGT GGA	48
Leu Glu Thr Gln Leu Gly Pro Asn Trp Asp Pro Asn Phe Ser Ser Gly	
1 5 10 15	
GGG AGA ACT TTT GAC GAT TTC CAC CGG TAT CTC CTC GTG GGT ATT CAG	96
Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln	
20 25 30	
GGA GCT GCC CAG AAA CCT ATA AAC TTG TCT AAG GCG ATT GAA GTC GTC	144
Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Ala Ile Glu Val Val	
35 40 45	
CAG GGG CAT GAT GAG TCA CCA GGA GTG TTT TTA GAG CAC CTC CAG GAG	192
Gln Gly His Asp Glu Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu	
50 55 60	
GCT TAT CGG ATT TAC ACC CCT TTT GAC CTG GCA GCC CCC GAA AAT AGC	240
Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser	
65 70 75 80	
CAT GCT CTT AAT TTG GCA TTT GTG GCT CAG GCA GCC CCA GAT AGT AAA	288
His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys	
85 90 95	
AGG AAA CTC CAA AAA CTA GAG GGA TTT TGC TGG AAT GAA TAC CAG TCA	336
Arg Lys Leu Gln Lys Leu Glu Gly Phe Cys Trp Asn Glu Tyr Gln Ser	
100 105 110	
GCT TTT AGA GAT AGC CTA AAA GGT TTT	363
Ala Phe Arg Asp Ser Leu Lys Gly Phe	
115 120	

*Fig. 6*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B17Ag1

GC TGGGCACAGT GGCTCATACC TGTAATCCTG ACCGTTTCAG AGGCTCAGGT	60
CG CTTGAGCCCA AGATTTC AAG ACTAGTCTGG GTAACATAGT GAGACCCTAT	120
AA AAATAAAAAA ATGAGCCTGG TGTAGTGSCA CACACCAGCT GAGGAGGGAG	180
CT AGGAGA	196

*Fig. 7*

7/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B17Ag2

```

GC TTGGGGGCTE TGA CTAGAAA TTCAAGGAAC CTGGGATTCA AGTCCAAC TG    60
AC TTACACTGTG GNETCCAATA AACTGCTTCT TTCTTATTC CTCTCTATTA    120
AA GGAAAAAGAT GTCTGTGTAT AGCCAAGTCA GNTATCTAA AAGGAGATAC    180
AT TAAATATCAG AATGTAAAAC CTGGGAACCA GGTTCCTCAG CTGGGATTAA    240
CA AGAAGACTGA AEA TACTAC TGTGAAAAGC CCGAAGNGGC AATATGTTCA    300
TT GAAGGATGGC TGGGAGAATG AATGCTCTGT CCCCAGTCC CAAGCTCACT    360
CT CTTTATAGC CTAGGAGA                                     388

```

*Fig. 8*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B13Ag2a

```

GC CTATAATCAT GTTCTCATT ATTTTCACAT TTTATTAACC AATTCTGTT    60
AA AATATGAGGG AAATATATGA AACAGGGAGG CAATGTTCA ATAATTGATE    120
TG ATTTCTACAT CAGATGCTCT TTCTTTCT GTTATTTTC TTTTATTTT    180
GG TCGAATGTAA TAGTTTTGTT TCAAGAGAGA GTTTTGGCAG TTTCTGTAG    240
CT GCTCATGTCT CCAGGCATCT ATTTGCACTT TAGGAGGTGT CGTGGGAGAC    300
CT ATTTTTTCCA TATTTGGGCA ACTACTA                                     337

```

*Fig. 9*

8/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B13Ag1b

```
GC CATAcAGTGC CTtTCCAtTt ATTtAACCCc cAcTGAACG GCATAAACTG   60
GC TGGTGTtTTT TAcTGtAAAc AATAAGGAGAc CTtTGTtTT CATTtAAACc   120
AT tTCATAtTTT AcGCTcGAGG GtTTTtAcCG GtTcCTtTTT AcAcTcCTtA   180
tT tAAGTcGtTT GGAACAcAGAT AtTTtTTCTT tCTGcGAcG tTTtAAcATT   240
tT tGTGTCTGGG GGAcTGCTGG tCAcTGTtTc tCAcAGtTGC AAATCAAGGc   300
cC AAGAAAAAAA AATtTTtTTG tTTtATTtGA AAcTGGAcCG GATAAAcGGT   360
cG GCTGCTGTAT AtAGtTTtAA AtGGtTtATT GAcCTcCTT AAGtTGcAcT   420
GG GGGGtTTtTG NATAGAAAGT NtTTANtCAC ANAGtCACAG GGAcTtTTNT   480
NA CTGAGCTAAA AAGGGCTGNT tTcGGGtGG GGGcAGATGA AGGCTCACAG   540
tC tETtAGAGGG GGGAAcTNCt A                                     571
```

*Fig. 10*

9/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B13Ag1a

TA ATAACTTAAA TATATTTTGA TCACCCACTG GGGTGATAAG ACAATAGATA 60  
TT TCCAAAAAGC ATAAAACCAA AGTATCATAC CAAACEAAAT TCATACTGCT 120  
CC GCAETGAAAC TTCACCTTCT AACTGCTAC CTAACCAAAT TCTACCTTC 180  
GG TCGGTGCTCA CTACTCTTTT TTTTTTTTTT TTTNTTTTGG AGATGGASTC 240  
CA GCCCAGGGGT GGAGTACAAT GGCACAACT CAGTCACTG NAACCTCCGC 300  
TT CATGAGATTC TCCTGNTTCA GCCTTCCCAG TAGCTGGGAC TACAGGTGTG 360  
TG CCTGGNTAAT CTTTTTTNGT TTTNGGGTAG AGATGGGGGT TTTACATGTT 420  
TG GTNTCGAACT CCTGACCTCA AGTGATCCAC CCAECTCAGG CTCCEAAAGT 480  
TA CAGACATGAG CCACTGNGCC CAGNCTGGT GCATGCTCAC TTCTCTAGGC 540

*Fig. 11*

10/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B11Ag1

```
TG CACATGCAGA ATATTCTATC GGTACTTCAG CTATTACTCA TTTTGATGGC   60
AG CCTATCCTCA AGATGAGTAT TTAGAAAGAA TTGATTTAGC GATAGACCAA   120
GC ACTCTGACTA CACGAAATTG TTCAGATGTG ATGGATTTAT GACAGTTGAT   180
GA GATTATTAAG TGATTATTTT AAAGGGAATC CATTAATTCC AGAATATCTT   240
TC AAGATGATAT AGAAATAGAA CAGAAAGAGA CTACAAATGA AGATGTATCA   300
TA TTGAAGAGCC TATAGTAGAA AATGAATTAG CTGCATTTAT TAGCCTTACA   360
TT TTCTGATGA ATCTTATATT CAGLCATCGA CATAGCATTG CCTGATGGGC   420
GA ATAATAGAAA CTGGGTGCGG GGCTATTGAT GAATTCATCC NCAGTAAATT   480
AC AAAATATAAC TCGATTGCAT TTGGATGATG GAATACTAAA TCTGGCAAAA   540
GG AGCTACTAGT AACCTCTCTT TTTGAGATGC AAAATTTTCT TTTAGGGTTT   600
CT ACTTTAEGGA TATTGGAGCA TAACGGGA                               638
```

*Fig. 12*

11/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B3CA3c

```

ACTGATGGAT GTCGCCGGAG GCGAGGGGCC TTATCTGATG CTCGGCTGCC TGTTCGTGAT   60
GTGCGCGGCG ATTGGGCTGT TTATCTCAAA CACCGCCACG GCGGTGCTGA TGGCGCCTAT  120
TGCCTTAGCG GCGGCGAAGT CAATGGGCGT CTCACCCCTAT CCTTTTGCCA TGGTGGTGGC  180
GATGGCGGCT TCGGCGGCGT TTATGACCCC GGTCTCCTCG CCGGTAAACA CCCTGGTGCT  240
TGGCCCTGGC AAGTACTCAT TTAGCGATTT TGTCAAAATA GGCCTG                               286

```

*Fig. 13*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B9CG1

```

AG CAGCCCTTC TTCTCAATTT CATCTGTAC TACCTGGTG TAGTATCTCA   60
CA TTTTATAGC CTCCTCCCTG GTCTGTCTTT TGATTTTCTT GCCTGTAATC  120
AC ATAAC TGCAA GTAAACATTT CTAAAGTGTG GTTATGCTCA TGCACTCTT  180
AA ATAGTTTCCA TTACCGTCTT AATAAAATTC GGATTTGTTT TTTNCTATTN  240
CA CTTATGACCG AA                               262

```

*Fig. 14*

12/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B9CG3

```

AG CAAAGCCAGT GGTITGAGCT CTCTACTGTG TAAACTCCTA AACCAAGGCC   60
TA AATGGTGGCA GGATTTTAT TATAAACATG TACCCATGCA AATTTCCTAT   120
GA TATATTCTTC TACATTTAAA CAATAAAAAT AATCTATTTT TAAAAGCCTA   180
AG TTAGGTAAGA GTGTTTAATG AGAGGGTATA AGGTATAAAT CACCAGTCAA   240
TG CCTATGACCG A                                           261

```

*Fig. 15*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B2CA2

```

CGACGTCGGT AAAATCGGAC ATGAAGCCAC CGCTGGTCTT TTCGTCCGAG CGATAGGCGC   60
CGGCCAGCCA GCGGAACGGT TGCCCGGATG GCGAAGCGAG CCGGAGTTCT TCGGAETGAG   120
TATGAATCTT GTTGTGAAAA TACTCGCCGC CTTCGTTTCA CGACGTCGCG TCGAAATCTT   180
AATCATGGTT GAGCCGGATG CTGCCCCCGA AGCCCT                               276

```

*Fig. 16*



13/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B3CA1

```

CCAGGTCAA CCAGGCTGCA ACACGCAGGT CTTGGATTG GGCACGAAGC AGCGCTTCGC   60
TGTTTTCAG GATTTTCAAC CAGTCGGTCT GGCCTTCTC ATGGAGGAG AGCGCCTTGC   120
CCAGTCATT TTCCAGCGCC TCGTATTCCG TGGAAAAACG CACATCTCA CCGCAAAGA   180
CATECTTTGA AATGGGTGT TCCGCGAGTT CCAGATANTG CGAGGAGAGC TTGCTCGAAT   240
AGGTCATCTT AACCTTCAA TGCACACCAT GTGCGCCAAT GAATATCTTA ACAATTCAAC   300
TAGTTGGCAT AANAACCGAA CGAAAATCCC AATAGTCTGA AGAGTCTTT TG           352

```

*Fig. 17*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B3CA2

```

CTGCATGTCC ACGGCTGGA TTTACGGGTG GTGGGGTTC ACCCTGGCA GCTGGCGGCTC   60
TTCCGACCA GGCCAGCAG GATGTGTGGG GCAAGGATAA CGCGTGCGC ATCGCTCGA   120
CCTATATGCC TACTGGCAAG GCGAGCCCG TGGAAAGGCG ATTCAAGTTC ACGGTCGCT   180
GGAGCTTTTC CACCGCTCC ATGCATTGTG ACTGGCTGTT TCTAGGCGGT CTGTTGCCA   240
ASCCTGATGG TACGTCTGGC CTGGAGCATG TGACTTCTG           280

```

*Fig. 18*

14/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B3CA3

AG GGAGCAAGGA GAAGGCATGG AGAGGCTCAN GCTGGTCCTG GCCTACGACT 60  
CT GTGCGCGGGG ATGGTGGAGA ACTGAAGCGG GAECTCTCTG AGGTCTCTCG 120  
TC NCCGTCCAGG AGGAGGGTCT TTCCGTGGTC TNGGAGGAGC GGGGGGAGAA 180  
TC ATGGTENACA TCCC 204

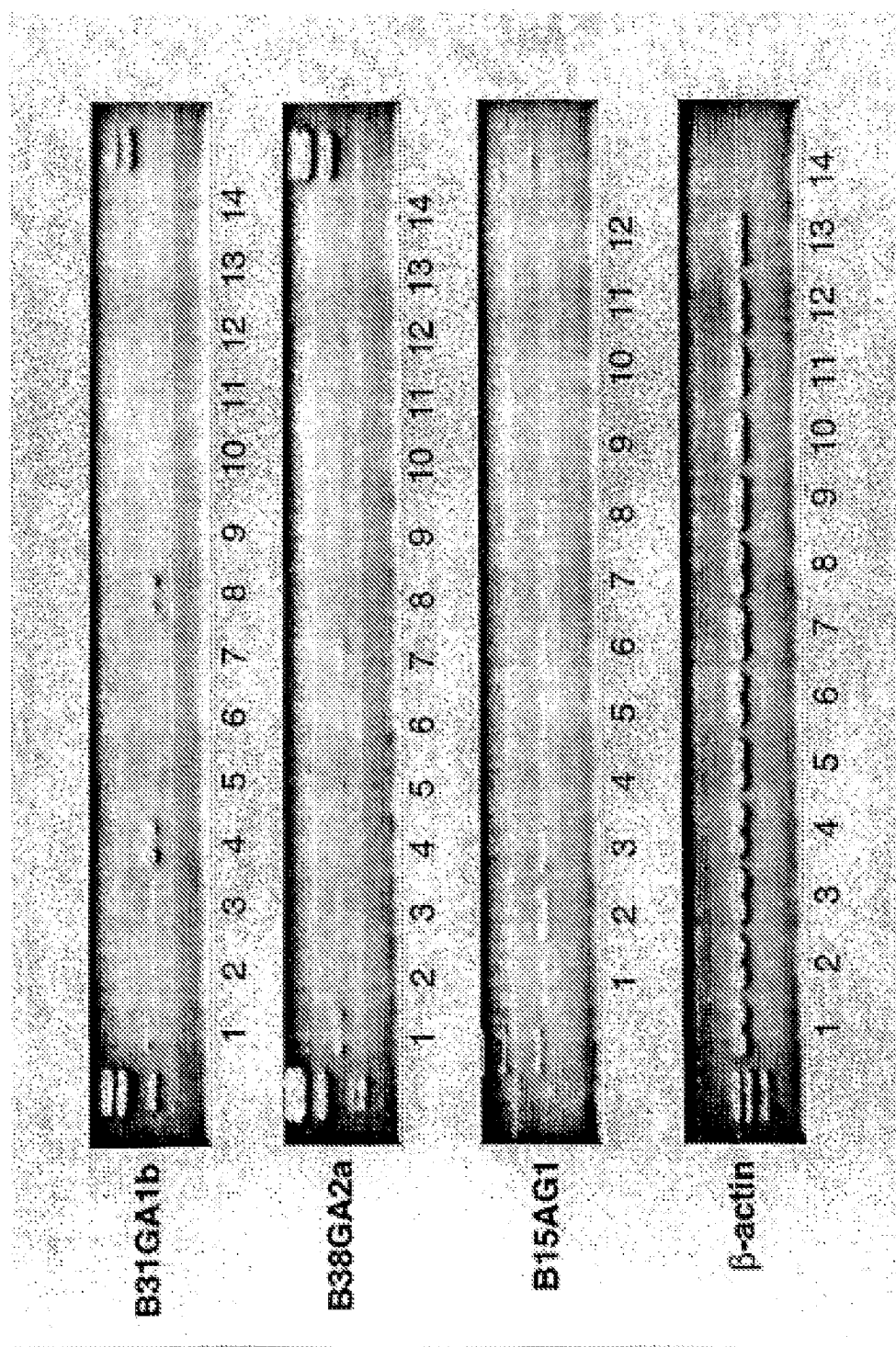
*Fig. 19*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B4CA1

TC AGGAGCGGGT AGAGTGGCAC CATTGAGGGG ATATTCAAAA ATATTATTTT 60  
TG ATAGTTGCTG AGTTTTTCTT TGACCCATGA GTTATATTGG AGTTTATTTT 120  
CC AATGCAATGG ACATGTTAGA CTTATTTTCT GTTAATGATT NCTATTTTTA 180  
GA TTTGAGAAAT TGGTINTTAT TATATCAATT TTTGGTATTT GTTGAGTTTG 240  
GC TTAGTATGTG ACCA 264

*Fig. 20*

15/19

*Fig. 21A*

16/19

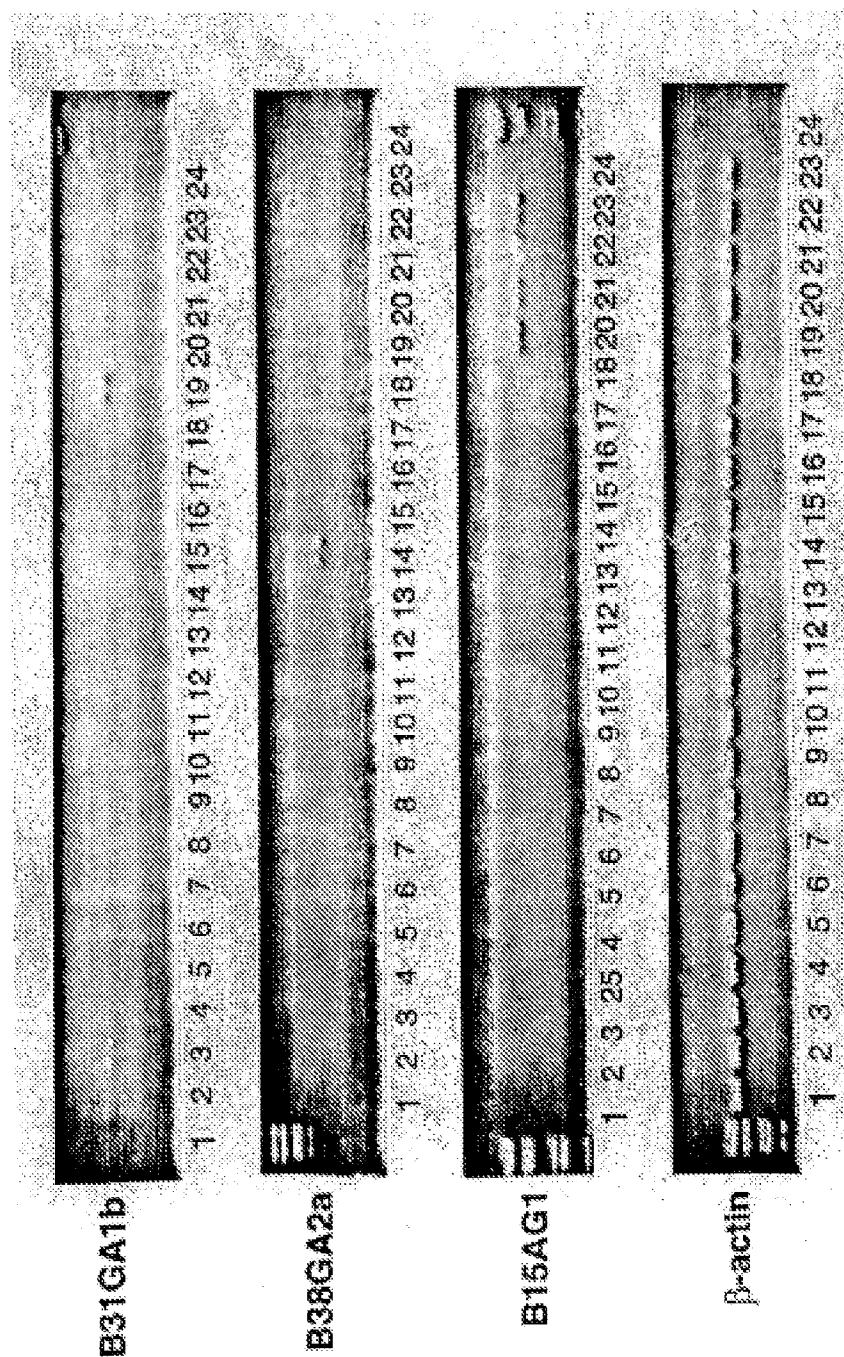
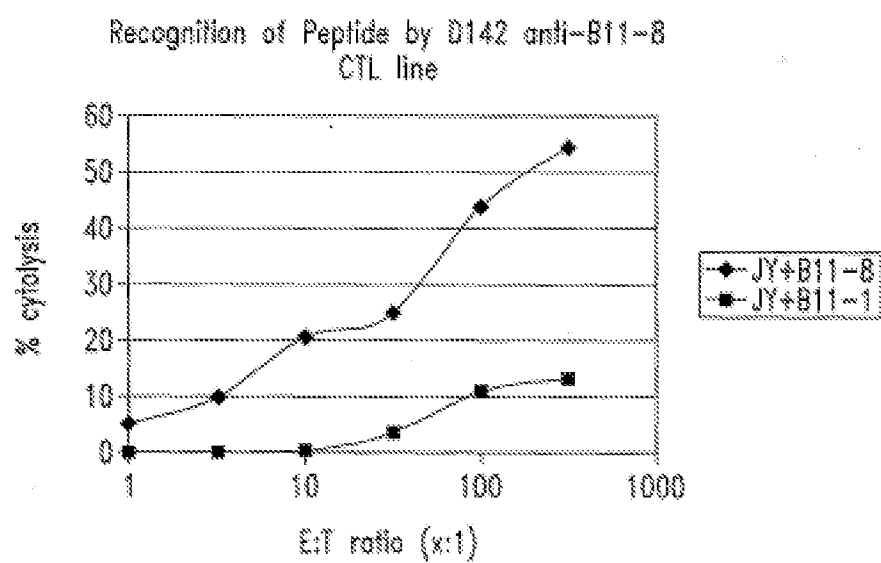
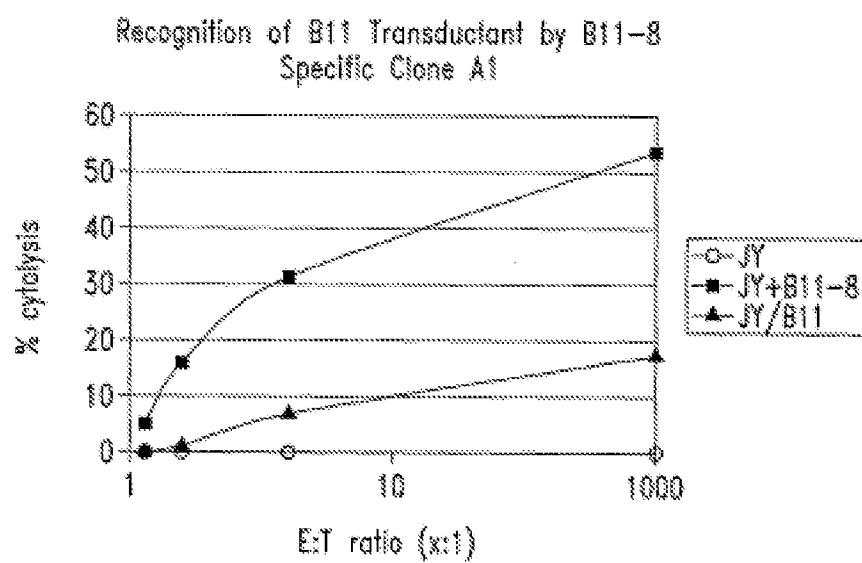


Fig. 21B

17/19

*Fig. 22*

18/19

*Fig. 23*

19/19

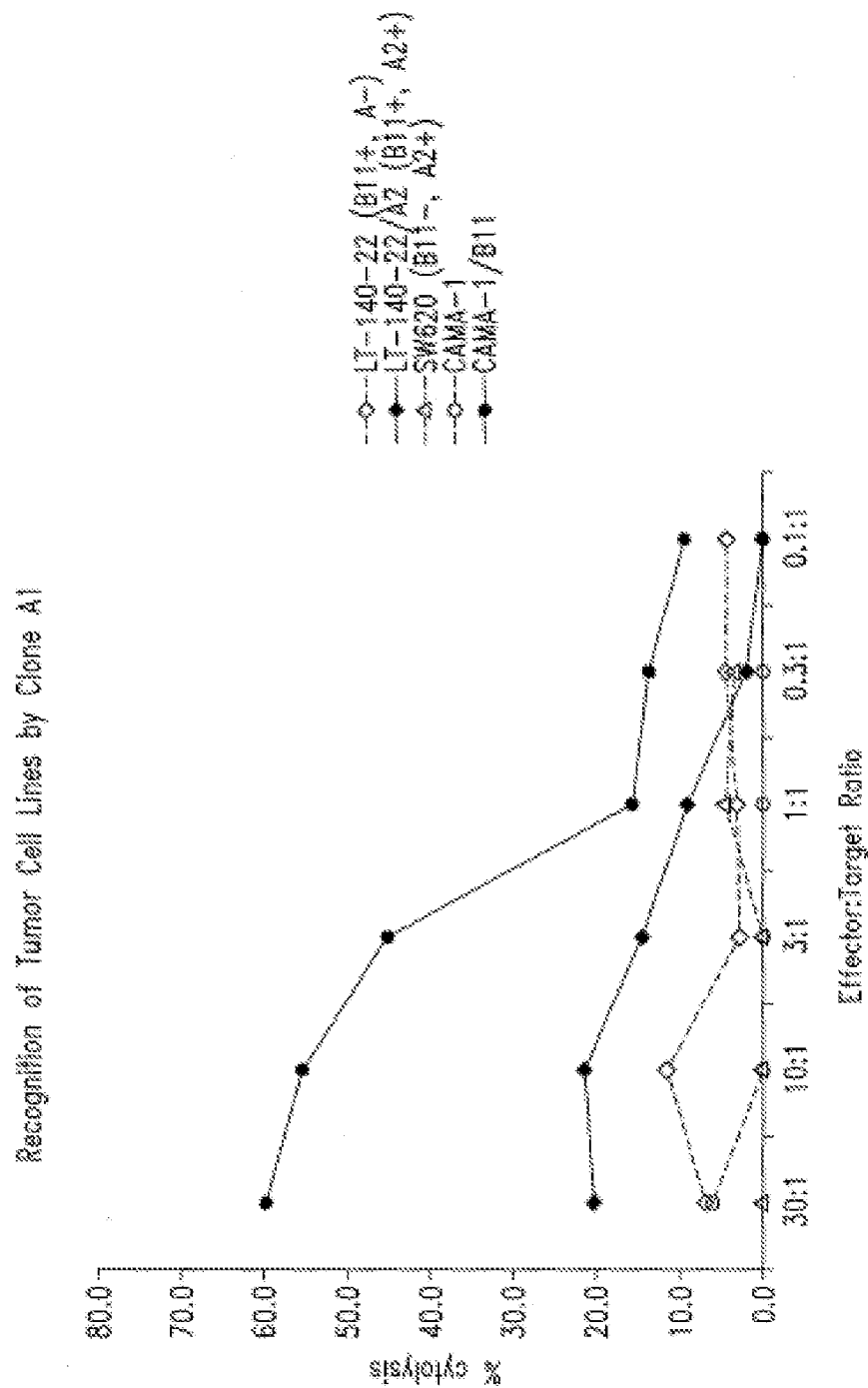


Fig. 24

## SEQUENCE LISTING

<110> Corixa Corporation  
 Frudakis, Tony N.  
 Reed, Steven G.  
 Smith, John M.  
 Misher, Linda E.  
 Dillon, Devin C.  
 Ketter, Marc W.  
 Wang, Aijun  
 Skeiky, Yassir A.W.  
 Harlocker, Susan L.  
 Day, Craig B.

<120> COMPOSITIONS AND METHODS FOR THE  
 THERAPY AND DIAGNOSIS OF BREAST CANCER

<130> 210121.418308C

<140> PCT

<141> 2001-05-22

<160> 334

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 363

<212> DNA

<213> Homo sapien

<400> 1

ttagagaccc	aattggggacc	taattggggac	ccaaatttct	caagtggagg	gagaactttt	60
gacgatttcc	acoggtatct	cctcgtgggt	attcagggag	ctgccagaa	acctataaac	120
ttgtctagg	cgattgaagt	cgtccagggg	catgatgagt	caccaggagt	gttttttagag	180
cacctccagg	aggttatctg	gatttacacc	ccttttgacc	tygcagcccc	cgaaaatagc	240
catgtctctt	atttggcatt	tgtggtctag	gcagcccccag	atagtaaaag	gaactccaa	300
aaactagagg	gattttgctg	gaatgaatac	cagtcagctt	ttagagatag	cctaaaaggt	360
ttt						363

<210> 2

<211> 131

<212> PRT

<213> Homo sapien

<400> 2

Leu	Glu	Thr	Gln	Leu	Gly	Pro	Asn	Trp	Asp	Pro	Asn	Phe	Ser	Ser	Gly
1				5					10					15	
Gly	Arg	Thr	Phe	Asp	Asp	Phe	His	Arg	Tyr	Leu	Leu	Val	Gly	Ile	Gln
			20					25					30		
Gly	Ala	Ala	Gln	Lys	Pro	Ile	Asn	Leu	Ser	Lys	Ala	Ile	Glu	Val	Val
			35			40						45			
Gln	Gly	His	Asp	Gln	Ser	Pro	Gly	Val	Phe	Leu	Glu	His	Leu	Gln	Glu
			50			55						60			



## 2

Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser  
 65 70 75 80  
 His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys  
 85 90 95  
 Arg Lys Leu Gln Lys Leu Gln Gly Phe Cys Trp Asn Glu Tyr Gln Ser  
 100 105 110  
 Ala Phe Arg Asp Ser Leu Lys Gly Phe  
 115 120

<210> 3  
 <211> 1080  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1080)  
 <223> n = A,T,C or G

<400> 3  
 tcttagaatc ttcataccac gaactccttg gaaaacttta atcagtcacc tacagttctac 60  
 caaccattta gtagggagca agctacotca gctcctccgg agcagtttta agatccccc 120  
 tcttcasagg ctaacagatc aagtagctct cgggtgcaca acrtgcgcgc aggtasatgc 180  
 caaaaaaggt cctaacacca gcccaggcca cegtctccaa gaaaactcac caggagaaas 240  
 gtgggaatc gactttacag aagtaaaacn acacgggctt ggttaccant acctctagt 300  
 actggtagac acctctcttg gctggactga agcatttgct accaaaaacg aaactgtcaa 360  
 tatggtagtt aagtttttac tcaatgaaat catcctctga cgtgggctgc ctgttgocat 420  
 aggtctctgt aatgggaagg ccttcgcctt gtctatagtt taatcagttc gtaaggcgtt 480  
 aaedattcaa tggagagctc attgtgccta tcgaaccaga gctctgggca agtagaacgc 540  
 atgaactgca ccttaaaaaa acactottac aaatttaato ttaaaaacog gtgttaattg 600  
 tgttagttct cttcccttag ccttacttag agttaagggt caccoccttac tgggtgggtt 660  
 tctttacctt tggaaatcat atttnggaag gggctgccta tcttttctta actaaaaan 720  
 gcccaitttg caaaaaattc ncaactaatt tntacgtacc taagtctccc caacagggtan 780  
 aaaaatctnc tgcocctttc aaggaaccat cccatccatt cctnaacaaa aggtctgcun 840  
 ttcttccccc agttaactnt ttttttttaa aattcccaaa aaangaacnn cctgtctgaa 900  
 aaacnccccc ctccaanccc cggccnaagn ggaagggtcc ctggaatccc nccccnana 960  
 anggcccgga accnttaaan tngttccngg gggttngggc taaaagnccn atttggtaaa 1020  
 ectanaaatt ttttctttt taanaaccac nntttanttt ttcttaacaa aaacctntt 1080

<210> 4  
 <211> 1087  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1087)  
 <223> n = A,T,C or G

<400> 4  
 tctagagctg cgcctggatc ccgccacagt gaggagaact gaagaaccga gaaaacacag 60  
 caagtagggc ctttaaacct ctcacctgtg ttgtctctca atttattctg ttttattttt 120  
 ttccatcat ttttaggggt taaaatcctc ttgttcagac ctccagatct aaatgaccc 180  
 atctgtagac ctccaggctc aaccatcccc caagagttgt ctggttttgt ttaaatctac 240  
 gccaggtttc agctgcagat atccctggaa ggaatattcc agattccctg agtaagtttc 300  
 aggttaaaat cctataggct tcttctgttt tgagggaagag ttcctgtccg agaaaaacat 360  
 gattttggat ttttaacctt aatgcttggt aaacgtata aaaaaaattt tctaccccct 420  
 gcttaaaagt actgttagtg agaaattaaa attccttcag gaggtttaa ctgccatttc 480

```

agttacgcta attcaaatg ttttgggtgt tgaactcttc tttaatgttc ttgaagaggt 540
gttttatatt ttcccatcna gataaatctt ctcccccttt nntttttntt ctnttttttt 600
aaacacggast ctgtgtccgt tctccanget gggaattttt ttttggccaa tctccgtctc 660
cttgcacaaa tctgcatcc ccaaatctcc nctttttctc cactctccac cccgggaatt 720
acctgggaatt aaaggccccc cccccccccc cggcctaatc gtttttgggt ttagtcaaaa 780
acgggtttcc tgttttagtt aggtatggcc annctgtacc cctntatctt cccctctcgc 840
cctcaaatct tgggatctag gcttccccc cccgngngtt tttctctcat taaaattttc 900
tatggantct tgaatnccg gttttccct ttaaacctat tttttttttt nnncccccac 960
ttttccctcc cccatntata anggyggttt ccccaacggg gtcnccccc angtcacaaa 1020
ttttctctcc cccactctt ttttcttttc cccaaaatc ctatcttttc ctntaaatat 1080
cnantnt 1087

```

```

<210> 5
<211> 1010
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1010)
<223> n = A,T,C or G

```

```

<400> 5
tctagaccca gaaatgggag gatttttagag tgactgatga tttctctatc atctgcagtt 60
agtaaacatt ctccacagtt tatgcaaaaa gtaacaaaa cactgcagat gacaaacact 120
aggttaacac cactctatct cccaaatacc taccacaaag ctcaacaatt ttaaactggt 180
aggatcactg gctctaatac ccatgacatg aggtcaccac caaaccatca agegtcaaac 240
agacagaaatg tttccactcc tgatccactg tytgggaaga agcaccgaac tiaccactg 300
gggggacctg ntcanaanaa aagcccatgc cccgggtctt ncttttnaac cggaaacgat 360
naacccacca tccccacanc tctctgtttc ntggggccctg catcttcttg cctctntctc 420
tttnggggan acntggggaa ggtaccccat ttctttgacc cccnanaaaa accccngtgg 480
ccctttgccc tgattccctt gggctttttc tcttttccct tttgggttgt ttaattccc 540
aatgtccccc gaacccctct cttctgtccc aaaaacctac taatttctc actangnttt 600
tcttgggtgt tctttttcaa aggttaccctt ccctgttcaa nccnanaaaa aattttttcc 660
ntatctatgg cccnnaaaaa nnnatcnncc caatttgccc gaattgggtc ggtttttcc 720
nctgggggaa accctttaaa tttcccccct ggccggcccc ctttttttcc ccccttinga 780
agggaggggg ttcttcccca acttccaatc naaacagcct tgcacattgn tgaacccctt 840
ttctcaaatc taasaaatan ccggttnagg anggcctctt tccctcccg gggggngng 900
aaatctctta cccnnaaaaa ggttgcttag cccccngtcc cactcccc nggaaaaata 960
aaccttttcc aaaaaaggaa tctaatttt ccaactcttn gttctcttcc 1010

```

```

<210> 6
<211> 950
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(950)
<223> n = A,T,C or G

```

```

<400> 6
tctagagctc ggggcgggga gctctaatac gactcactat agggcgctga ctgatctca 60
gtcactgca atctctgccc cgggggtcat gcatctctcc tgcctcagcc ttccagtag 120
ctggggttac aggcgtgcaa caccacaccc ggtcaatttt gtatttttas tagagatggg 180
gttttccctt gttggccann atggtctcna accctgacc tcnngtgatc ccccccctc 240
ngantcann ctgttgggga tnnccgnann annctcccn ncnannnnn scnaatccn 300
tactcttnc tcnnnnnnn annctctcc ncttctcnc cnaatntnt cnaaaacnn 360

```



## 5

```

aggggcgggt gcaactgita ccaaggagac tnatgtgttg tgggctcagg ctttaccanc 360
aaacacctca acnccaaagg ctgaattgat cgcctccact caggctctcg gatggggtaa 420
gggatattaa cgttaacact gacagcaggt acgccttity tactgtgcat gtacgtggag 480
ccctctacca ggagcgtggg ctactcaact ggacagtggt tgnatccac tgaanngga 540
catcaaaagg aaaaanngg tgytgccgt ggtaaccana aactgacac ccagctcnas 600
gatgctgtgt tgactttcac tcnccctct taaacttget gccacacac tcccttccca 660
accagatctg cctgacacac cccatactca aaaaaaaan aaactgggc ccgaacccna 720
accataaasa cgggggaggg tgggtnganc nccctgaccc aaaaataatg gatccccgg 780
gctgcaggaa ttcaattcan ccttatcnat ccccccacn nggggggggg ggcngtnc 840
caktccctct ctattnaatt tttnacccc ccccgccat ctttttnaa ctctgaaag 900
ggaaaacttg ccttacncaa ttatnccct gacntcccc ttccnoggtn gnttaaaaa 960
aaaagccccc antccncc naaatttgca cngaaaggna aggaatttaa ctttatitt 1020
ttnatccctt antttgtann ccccttttta cccaggcgaa cngccctct ttaaaaaa 1080
aaaagaang tttattttt ctingaacca tcccaatana aacacccgc aggggaacgg 1140
gggggaaggc cnetcccc ctintgtng gggggac 1177

```

<210> 9  
 <211> 1146  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...{1146}  
 <223> n = A,T,C or G

```

<400> 9
nccnnttmat gatgtgtct ttttggctc tottgggata ctttccctct cttcagaggt 60
gaaaagggtc aaaaggagct gttgacagtc atcccagggt ggccaatgtg tccagagtag 120
agctcccatc agtgaggcca aagcctgggg cttttcagag aaggaggagt tatgggtttt 180
ccaattatac aagtcagaag tagaaagaag ggacataaac caggaagggg gtgagacact 240
catcacccag agggacttgt gactctctca gtggtagtag aggggctact tccctccacc 300
acggttgcaa ccaagaggca atgggtgat agctacagg ggacatancc gaggagacat 360
gggatgaacc taaggaggta ggcgtgtttt aaggcgggtg gactgggtga gggaaactct 420
cctctctctt agagagaagc gttacagggc gactgtgaac ggtgaaggt ccaggcgaaa 480
acacggtctg gctcaggagc accttggaag taacttatg aatggtgat gaatggagcc 540
atggaagggg tgcctctgac caaactcagc cattgatcaa tgttagggaa actgatcagg 600
gaagcgggga atttcattaa caacccgcca cacagcttga acattgtgag gttcagtgac 660
ccttcaaggy gcaactcac tccaactttg gcaattctac tttgonaaat ttccaaaact 720
tcccttttta aggcgaac cttantccct naaaaaacna aaaaactctg cncctattct 780
ggaaaaggcc cacccttacc caggctggaa gaaattttnc ctttttttt tttttgaag 840
ccttttttaa attgaacctn aatttcoccc cccaaaaaaa aacccnccng gggggcggt 900
ttccaaaaac naattccctt accaaaaaac aaaaaacnc cctttttccc ttccnccctn 960
tttttttaac tagggagaga tnaagccccc caatttccng gnetngatna gtttccccc 1020
cccccatctt ccaaaacttt ttcccacnaa ggaanccccc ctttttttng gtcngattna 1080
ncaactctcc aaaccatttt tccnaaaaaa ntttgnatng agggaaaaaa acctantttt 1140
atagan 1146

```

<210> 10  
 <211> 545  
 <212> DNA  
 <213> Homo sapien

```

<400> 10
cttcattggg tacgggcccc ctgagggtcg acgggtatga taagcttgat atgaattcc 60
tgcagccggg gggatccact agttctagag tcaggagaaa ccaccaacct tctgtatttt 120
tattggctct gacttctgag ggcagtttt ttctctgttt gactatgogg gattgtcagg 180
cagatctggc tgtggaagg agactgtggg cagcaagttt agaggcgtga ctgaagttc 240

```

## 6

```

caatgcacatc tgcgcgcgcg aatcagcttt ctgggtacca cgggcacacg cctgtttttc 300
cttttgatgt cctttacagt ggattacagc cactgctga ggtgagtagc ccacgctect 360
ggtagatggc tccacgtaca tgcacagtag caaaggcgta cctgcgtgta gtgttaacgt 420
taatatcctt aacccatcgg agagcctgag tgagggcgat caattcagcc cttttgtgct 480
gaggtgtttg ctggttaagc cctgaaccca caacacatct gtctccatgy taacagctgc 540
acggg

```

```

<210> 11
<211> 196
<212> DNA
<213> Homo sapien

```

```

<400> 11
tctcctaggc tgggcacagt ggtccatacc tgttaactctg acggtttcag aggtccaggt 60
ggggggatcg cttgagcccc agatttcaag actagtctgg gtaacatagt gagaccctat 120
ctctacgaaa aaataaaaaa atgagcctgg tgtagtggca caacccagct gaggggggag 180
aatcagagcct aggaga
196

```

```

<210> 12
<211> 388
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(388)
<223> n = A,T,C or G

```

```

<400> 12
tctcctaggc ttgggggctc tgactagaaa ttccagggaac ctggggattcc agtccaaactg 60
tgacacccac ttacactgtg gctccacata aactgcttct tctctattcc ctctctatta 120
aataaaatat ggaanaacgat gtctgtgtat agccaagtcc gttatcttaa aaggagatac 180
taagtgcact taatatccag aatgtaaaaa ctgggaacca ggttccnaga ctgggattaa 240
actgacagca agagactga scagtactac tgtgaaagac ccgaaggggc aataigttaa 300
ctctacagtt gaaggatggc tgggagaatg aatgctctgt cccccagttc caagctcact 360
tactatacct cctttatagc ctaggaga
388

```

```

<210> 13
<211> 337
<212> DNA
<213> Homo sapien

```

```

<400> 13
tagtagttgc ctataatcat gtttctcatt attttacat tttaktaacc aatttctggt 60
taccctgaaa aatatggggg aatatatgca aacagggagg caatgttcag ataattgata 120
acaagatatg attttacat cagatgctct ttcccttccg gtttatttcc tttttatttc 180
ggttggtggg tgaatgtaa tagctttgtt tcaagagaga gttttggcag tttctgtgac 240
ttctgacact gctcatgtct ccagycatct atttgcactt taggaggtgt cgtggggagac 300
tgagaggtct attttttcca tatttgggca actacta
337

```

```

<210> 14
<211> 571
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(571)

```

<223> n = A,T,C or G

<400> 14

tagtagttgc	catcacgtgc	ctttccattt	atttaacccc	cacctgaacg	gcataaacctg	60
agtgttcagc	tgggtgtttt	tactgtaac	aataaggaga	ctttgtctct	catttaaac	120
aaaatcatat	ttcatattt	acgtctgagg	gtttttcccg	gttcttttt	acactcccta	180
aaacagtttt	taagtcgttt	ggacacagat	atttttcttt	tcctggcagc	ttttaacatt	240
atagcaaat	tgtgtctggg	ggactgctgg	tcactgttcc	tcacagttgc	aaatcaaggg	300
atttgcaccc	aagaaaaaaa	aatttttttg	ttttatttga	aactggacgg	gataaacggg	360
gtttggagcg	gctgctgtat	atagtcttaa	atgggttatt	gcacctctct	aagttgcact	420
tatgtggggg	ggggtttttg	natagaaagt	ctttantcac	acagtcacag	ggacttttnt	480
cttttgggna	ctggcctaaa	aagggtgnt	tttgggtggg	gggcagatga	aggctcacag	540
gaggcccttc	tcttaggggg	gggaactnct	a			571

<210> 15

<211> 548

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (548)

<223> n = A,T,C or G

<400> 15

tatatattta	ataacttaaa	tatatatttga	tcacccactg	gggtgataag	acaatagata	60
taaaagtatt	tccaaaaagc	atasaaccaa	agtatcatat	caaaccaaat	tcatactgct	120
tcccccaccc	gaactgaaac	ttcaccttct	aactgtctac	ctaaccaaat	tctacccttc	180
aagtcttttg	tgggtgctca	ctactctttt	tttttttttt	tttttttttg	agatggggtc	240
tgggtgtgca	gccacggggg	ggagtacaa	ggcacaaact	cagctcactg	naacctccgc	300
ctccacaggt	catgagattc	tactgnttca	gccttccacg	tagctggggc	tacaggtgtg	360
catcacccat	cctggntaat	ctttttttgt	tttngggtag	agatgggggt	tttcatgttt	420
ggccagggat	gnttcgaact	cctgacctca	agtgatccac	ccacctcagg	ctcccaaggt	480
gctaggatta	cagacctgag	ccactgagcc	cagacctggt	gcctgtctcc	ttctctaggg	540
aactacta						548

<210> 16

<211> 638

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (638)

<223> n = A,T,C or G

<400> 16

ttccgttatg	cacatgcaga	atatctctat	ggtacttcag	ctattactca	ttttgatggc	60
gcactccgag	cctatctcca	agatgagtat	ttagaagaaa	ttgattttag	gatagaccaa	120
gctggtaagc	actctgacta	caagaaattg	ttcagatgtg	atggttttat	gacagttgat	180
ctttgggaag	gattattaag	tgattatttt	aaagggaatc	cattaatcc	agatatcttt	240
ggtttagctc	aagatgatct	agaaatagaa	cagaagagga	ctcaaatgta	agatgtatca	300
ccacttgata	ttgaagagcc	katagtagaa	aatgaattag	ctgcatttat	tacacttaca	360
catagccatt	ttcctgatga	atotttatatt	cagccatoga	catagcatta	cctgatgggc	420
aacnttccga	ataatagaaa	ctgggtgcgg	ggctattgat	gaattcatcc	ncagtaaat	480
tggatctnac	aaaatataac	tcgattgcct	ctggatgatg	gaatactaaa	tctggcaaaa	540
gtaacctttg	agctactagt	aacctctctt	tttgagatgc	aaaattttct	tttagggttt	600
cttctctctt	actttacgga	tattggagca	taacggga			638

<210> 17  
 <211> 286  
 <212> DNA  
 <213> Homo sapien

<400> 17  
 actgatggat gtgcgggag gggaggggcc ttatctgatg ctgggtgccc tgttcgtgat 60  
 gtgcggggcg attgggtgt ttatctcaaa caccggcacc ggggtgctga tggcgcttat 120  
 tgccttagcg gggcggaagt caatggggcg ctacacctat ccttttgcca tggtagtggc 180  
 gatgggggt tggcgggcg ttatgacccc ggtctctctg cgggttaaca cctggtgct 240  
 tggccctggc agtactcat ttaggagatt tgcacaaata ggcgtg 286

<210> 18  
 <211> 262  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(262)  
 <223> n = A,T,C or G

<400> 18  
 tgggtcatag cagcccttc ttctcaattt catctgtcac taccctggtg tagtatctca 60  
 tagccttaaa tttttatagc ctctccctg gtctgtcttt tgattttcct gctgttaata 120  
 catatcacac ataactgcaa gtaaacattt cttaagtgtg gttatgtcca tgtcaactct 180  
 gtgcaagaa atagtttcca ttacgtctt aataaaaatc ggatttgttc ttctctain 240  
 taactctca cctatgaacg aa 262

<210> 19  
 <211> 261  
 <212> DNA  
 <213> Homo sapien

<400> 19  
 tgggtcatag caaagccagt ggtttgagct ctctactgtg taactctcta aaccaaggcc 60  
 atttatgata aatggtggca ggatttttat tataaacatg taacctgca aatttctat 120  
 aactctgaga tatattctc tacatttcaa caataaaat aatctatttt taaaagccta 180  
 atttgctag ttaggtaaga gtgtttaatg agaggtata aggtataaat caccagtcac 240  
 cgtttctctg cctatgaacg a 261

<210> 20  
 <211> 294  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(294)  
 <223> n = A,T,C or G

<400> 20  
 tacaacgag cgaactcgt aaantcggac atgaagccac cgtcgtcttt ttgtccggag 60  
 cgtatgggag cggccagcca ggggaacggt tggccggatg gccaagcgag cggagttct 120  
 tggactgag tatgaatctt gttgtgaaaa tactcgcgcg cttcgttcta cgaactcgg 180  
 tcaaaatctt cgaactcctt acgatagaag tcttcgtggg cgaactcgcg ggtcagttcc 240  
 gcccacagca aatcctggtt gaggcggatg ctgccccga agnctcgtt tctn 294

```

<210> 21
<211> 208
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(208)
<223> n = A,T,C or G

<400> 21
ttggttaagg gcatggacgc agacgcctga cgtttggctg aaaatctttc attgattcgt      60
atcaatgaat agaaaaattc ccaaaagaggg aatgtcctgt tgcctgcacag tttttntgtt      120
gttctcatgg anaaggcaan gagctcttca gactattggn attntcgttc ggtctctctg      180
caactagtcg acttgcnaag atcttcat
                                     208

<210> 22
<211> 287
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(287)
<223> n = A,T,C or G

<400> 22
nccnttgagc tgagtgattg agatntgtaa tggttglaag ggtgattcag gaggattagg      60
gtggcggggtc acccggcagc gggctctcccg acaggccagc aggatttggg gcaggtaacg      120
ngtgcgcac cctcgactat atgctatggc aggcgagccg tggaaaggngg atcaggtcac      180
ggcgcctggag ctttccacgg tccatgaatt gngatggctg ttctaggcgg ctgttgccaa      240
gcgtgatggt aogctggctg gacgattgat ttctggtgac aaggtgg
                                     287

<210> 23
<211> 204
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(204)
<223> n = A,T,C or G

<400> 23
ttgggttaag ggagcaagga gaaggcatgg agaggctcan gctggctctg gctacggact      60
gggcdaagct gtgcacgggg atggtggaga actgaagcgg gacctcctcg aggtcctccg      120
nagttacttc nccgtccagg aggagggctt ttcctggttc tnggaggagc ggggggagaa      180
gatnctcttc atggtcnaca tccc
                                     204

<210> 24
<211> 264
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(264)

```



<223> n = A,T,C or G

<400> 24

tggaattggc	agggaggggt	agagtggaac	cattgagggg	atattcaaaa	atattatttt	60
gtcccaaatg	atagttgctg	agtttttttt	tgacccaalga	gttatatttg	agtttatttt	120
ttaacttttc	aabgcgatgg	acatgtttag	cttattttct	gttaattgatt	actattttta	180
ttaactttgg	tttgagaaat	tggtttttat	tatatcaatt	tctggtattt	gttgagtttg	240
acattatago	ttagtatgtg	acca				264

<210> 25

<211> 376

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(376)

<223> n = A,T,C or G

<400> 25

ttacaacgag	gggaactcc	gtctctacaa	aaattaaaa	attagccagg	tgtggtggtg	60
tgcccccaga	atcccagcta	cttggggaggt	tgagacacaa	gaatcaccta	aatgtggggag	120
gtcaagggtg	catgagtcac	gattgtgaca	ctgcactcca	gcctgggtga	cagaccgaga	180
ccctgcctca	anaganaang	aataggaagt	tcagaaatcn	tggtgtgtgn	gccacgaat	240
ctgcctciat	ncacccctg	caggcaangc	tgatgcagcc	taagtccaag	agctgctgtt	300
tctggaggca	gaagttggg	cttccatcca	gtatcacggc	caactcga	cnagccatct	360
gtctcccgta	tgtaac					376

<210> 26

<211> 372

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(372)

<223> n = A,T,C or G

<400> 26

ttacaacgag	gggaactcc	gtctctacaa	aaattaaaa	attagccagg	tgtggtggtg	60
tgccctctga	atcccagcta	cttggggcggc	tgagacacaa	gaatcaccta	aatgtggggag	120
ggtcaagggt	gaatgagtcac	tgatggcgcc	actgcactcc	agcctgggtg	acagactgag	180
acctgcctc	aaagaaaaaa	gaataggaag	ttcagaacc	ctgggtgtgg	ngccagcaaa	240
tctgcattta	aacatccct	gcaggcaatg	ctgatgcagc	ctaagttcaa	gagctgctgt	300
tctggaggca	gnagtaagg	cttccatcca	gcatacggc	caactcga	aaagccactg	360
tcctcgttgg	ta					372

<210> 27

<211> 477

<212> DNA

<213> Homo sapien

<400> 27

ttctgtccac	atctacaagt	tttatttatt	ttgtgggttt	tcagggtgac	taagtttttc	60
cttaccattga	aaagagaagt	tgctaaaagg	tgacacaggaa	atcatttttt	taagtgaata	120
tgataataig	ggtccgtgct	taatacaact	gagacatatt	tgttctctgt	tttttttagag	180
tcacctctta	aagtccaatc	ccacaatggt	gaaaaaaaa	tagaaagtat	ttgtttctacc	240
tttaaggaga	ctgcagggat	tctccttgaa	aacggagtat	ggaatcaatc	tttaataaat	300

```

atgaaattgg ttggtcttct gggataagaa attcccaact cagtgtgctg aaattcacct 360
gacttttttt gggaaaaaat agtcgaaaaat gtcaatttgg tccataaaat acatgttact 420
attaaaagat attkaagagc aaattctttc agagctctaa gattgggtgtg gacagaa 477

```

&lt;210&gt; 20

&lt;211&gt; 438

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(438)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 28

```

tctncaacct ctggaatgtc aaaaaccttn taggtatctc ctaaaagctg actggtattc 60
attccagcaa aatccctcta gtttttgag tttctttta ctatctggg ctgcttgagc 120
cacaaatgcc aaattaagag catggctatt ttggggggct gacaggtcaa aagggygtga 180
aatccgataa gctctctgga ggtgctctaa aaacactcct ggtgactcat catgccccgt 240
gacgaattca atcgacttag acsagtttat aggtttcttg gcagctccct gaatacccac 300
gaggaatcac cgttggaat cgtcaaaaag tctccctcca cttaggaaat ttgggtccca 360
attaggctcc aattgggtct ctatccacta tctctctaga ttctctctcc ggcctattgg 420
ttgatgtgag gttgaaga 438

```

&lt;210&gt; 29

&lt;211&gt; 620

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(620)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 29

```

aagagggtac cagccccaag ccttgacaac ttccataggg tgtcaagcct gtgggtgcac 60
agaagtccaa aattgagttt tgggactcct agcctagatt tcagaggata taagaaaaca 120
cctaacacct agtatctcag acaaaagttt actacagggg tgaagcttct cgggaaaacc 180
tctactagga agtctcagaa gagaatgtg ggtttggagc ccccaaacag aatccctct 240
agaactctgc ctaatgaaa tgtgagaaga tggcactgt catccagaca ccagaatgat 300
agaaccacca aaactctatg ccatattgac tataaaacct acagacactc aatgccagcc 360
ccatgaaaaa aaacttgaga agaaactgtt nccctacaat gccacgggag cagaactgac 420
ccaggccatg gaagcacagc tcttatatca atgtgacctg gatgttgaga catggaatcc 480
nangaaatca ttttaaatc tccacgggtt aatgactgcc ctattanatt ongaacttan 540
atcagggcct gtgaactcct tgttttgacc attccccctt ttgggaatgg ctnttttttt 600
cccatgctg tncctctta 620

```

&lt;210&gt; 30

&lt;211&gt; 100

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 30

```

ttacaacgag ggggtcaatg tcaataatgt cacaataaaa caactctctc ttttttttt 60
ttttttttt ttttttttt ttttttttt ttttttttt 100

```

&lt;210&gt; 31

&lt;211&gt; 762

<212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> [1]...[762]  
 <223> n = A, T, C or G

<400> 31  
 tagtctatgc gccggacaga gcagcattaa attggaaagt gccctcaggc atttctaccc 60  
 acactcttcc tgaasagaga aagaaaagag gcaggaaaga ggttaggatt tcattttcaa 120  
 gactcagcta attaggagag cagagtttag acagcagtag gcaccccatg atacaaacca 180  
 tggacaaagt cctgttttag taactgccag acatgatcct gctcaggttt tgaattctct 240  
 ctgccatata aagatggaga gcaggagatgc catccacata aacacgtgtc caagaagag 300  
 tctcagggag acaagggtat caaaaaacaa gattcttaac gggagggaaa tcacaccaa 360  
 aaattagatt ttctcttaca tatatataat atacagatat ttaacacatt attccagagg 420  
 tggctccagt ccttggggct tgagagatgg tgaanaattt tgttccacat taacttctgc 480  
 tctcaaatto tgaagtatat cagaatggga caggcaatgt ttgtctccac actggggcac 540  
 agaccccaat ggttctgtgc ccgaagagga gaagcccgaa agcatgaag gatgcttaag 600  
 ggggggtggg aaagccaat tggatantac ttttctcctt gctgtgttgc cngasgtctc 660  
 cactgaagga attcttaaaa ccttttgtga ggaatggccc ccttaacatg acaantggtc 720  
 ccttggcttt taggggatg gaaacaccaa ggttttgtat cc 762

<210> 32  
 <211> 276  
 <212> DNA  
 <213> Homo sapien

<400> 32  
 tagtctatgc gtgtattaac ctccctctcc tcagtaacaa ccaagagggc aggaggtgtt 60  
 attacaaacc ccatcttaca gatgcataaa taatgacaga gaagtgaagt gacttgccga 120  
 cacaaccagt aaattggcag agtcagattt gaatccatgg agtcgtgtct gcactttcaa 180  
 tcacgaata cctttctcaa gaacgtgtgt ctgaatgagt gcaaggataa atcagtgtct 240  
 actcaacata ttgtcctaga tatccgcact agacta 276

<210> 33  
 <211> 477  
 <212> DNA  
 <213> Homo sapien

<400> 33  
 tagtagttgc caaatatttg aaattttacc cagaagtgat tgaanaattt ttggaaccaa 60  
 aaacaaataa agccaaaagg taasataaaa atatctttgc actctcgtta ttacctatcc 120  
 ataacctttt ccccgtaagc tctcctgctt gttagtctag tgtggttata ttaaaccttt 180  
 tagttattat tttttattca cttttccact agaaagtcat tatgattta gccacacatg 240  
 tgaatcatt tcattttttc tttttatagg caaaatttga tgcctatgca caaaatctc 300  
 caagccatt atctttttc ccccgaaat ctgaasattg caggggacag aggggaagta 360  
 tccattataa aaattgtaaa tatgttcagt tkaigttaa aatgcacaa aacataagaa 420  
 aattgtgttt acttgagctg ctgattgtaa gcagttttat ctcaagggca actacta 477

<210> 34  
 <211> 631  
 <212> DNA  
 <213> Homo sapien

<400> 34  
 tagtagttgc caattcagat gatcagaat gotgttttcc tcagcattgt ctgtttaaac 60  
 cgcctgccat ttggaacttt ggcagtgaag agccaaaagg aagaggtgaa tgcatatat 120

```

atatatatat attcaatgaa agtaaaatgt atatgctcat atactttcta gttatcagaa 180
tgagtttaagc ttatgccat tgggtgctg catattttta tcagaagata aaagaaaatc 240
tgggcatitt tagaatgtga tacatgtttt tttaaaactg ttaaatatta tttagatatt 300
tgtctaaaga cgggaatgtt cttaaaattt actaaaacag tattgtttga ggaagagaaa 360
actgtactgt tggcatat tacagtctga caagtgcctg tcaagtcacc cactctctca 420
ggcatcagta tccacctcat agctttacac attttgacgg ggaatattgc agcatcctca 480
ggcctgacat atgggaaagg cttagatcca cctactgctc cttgctcgtt gatttgtttt 540
aaaatattgt gctggtgtc acttttaagc cacagccctg cctaaaagcc agcagagaa 600
agaacccgaa ccatctata ggcactact a 631

```

<210> 35  
 <211> 578  
 <212> DNA  
 <213> Homo sapien

```

<400> 35
tagtagttgc catcccatat tacagaaggc tctgtataca tgacttattt ggaagtgtac 60
tgtttctctc ccaaacccat ttatcgtaat ttcaccagtc ttggatcaat cttggtttcc 120
actgatacca tgaaccctac ttggagcaga cattgcacag tttctgtgtg taaaaactaa 180
aggtttatct gctaagctgt catcttatgc ttagtatttt tttttacag tggggaattg 240
ctgagattac attttgital tcattagata ctttggata acttgacact gtcttctttt 300
tttctgtttt aattgtatc atcatgtttt tgaaccaga acacattagt cctcaagtat 360
tacataagct tgtttgttac gctggttgtt ttaaggacat atctttggcc tcaggttcac 420
aagaatgggc aaagtgttcc cttatgttct gtagtttcca ataaaagatt gccaggggac 480
gggtactgtg gctgcactg taatccacg actttgggaa gctgaggctg gccgatcatg 540
ttagggcagg tgttgaacc cagcctgggc aactanta 578

```

<210> 36  
 <211> 583  
 <212> DNA  
 <213> Homo sapien

```

<400> 36
tagtagttgc ctgttaacc agcaactcag gaggtcgggg caggagaaac agttgaacct 60
gggagggcaga agttgtaatt agcaagatc gcccatgtc acttcagcct gggaacaaag 120
agtgaatttc catctcaaaa acacaaaaaa gaaaaagaaa agaaaaggaa aaacgtata 180
aacccagcca aaacaaatg atcattcttt taataagcaa gactaattta atgtgtttat 240
ttaataaagg cagttgaatc ttctgagtta ttggtgaaaa taccatgta gtttaatttag 300
ggttcttact tgggtgacg ttgtatgttc acaggttata aaatggttaa cagggaatat 360
gatgcataaa gaactttata aactactaaa aataaataaa atataaatgg ataggtgcta 420
tggatggagt tttgtgttaa tttaaaatct tgaagtcaat ttggtgtctc attggttgtc 480
tggttaattc cattaggaaa aggttatgat atggggaacc tgtttctgga aattgogaaa 540
tgtttctcat ctgtaaatg ctagtatctc agggcaacta cta 583

```

<210> 37  
 <211> 716  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(716)  
 <223> n = A,T,C or G

```

<400> 37
gatctactag tcaatgtgat tctatccatg gaagttaagc cttcttgaaat gattctact 60
gctttcttgt tctttcaatc agacatttat atatgtttat gttcacagc agggcaatgt 120
ctagtgaaaa caattctaaa tttttttttt tgcattttca tgotaaattc cgtcacactc 180

```

```

cagcagggtt cctggggagaa taaggagaaa taacagctaaa gacattgttc ctgcttactt 240
acagcctaatt ggtatgcaaa accacttcaa taaggttaaca ggaaggtac taaccaggta 300
gaatggacca aaactgatat agaaaaatca gaggaagaga ggaacaaata ttactgagt 360
octagaaagt acaagggttt ttaattacat attttatgta aggcctgcac aaacaggig 420
agtaatcaac atttgtccca ttttacatat aaggaaactg aagcttaaat tgaataattt 480
aatgcataga ttttatagtt agaccatggt caggtcccta tgtttactt actagctgta 540
tgaatatgag aaataaattt tgttattttc ttggcatcag tattttcctc tgcaaatata 600
agctaaagtt atttagcaaa cagtcagcat agtgcctgat acatagtagg tgtccaaac 660
atgattacno tantattngg kattanaaaa atccaatata ggcntggata aaacgg 716

```

&lt;210&gt; 38

&lt;211&gt; 688

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(688)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 38

```

ttctgtccac atatcctccc actttaattg ttaatcagca aaactttcaa tgaaaaatca 60
tccattttaa ccagggtcac accaggaanac tgaagggtgta ttttttttta ccttaaaaaa 120
aaaaaasaaa accaaacaaa ccaaaacaga ttaacagcaa agagttctca aaattttaca 180
tttctcttac aactgtcatt cagagaacaa tagttcttaa gtctgttaaa tcttggcatt 240
aacagagaaa cttgatgaan agtctactt ggaatattgt ggaatttttt ttttgtctaa 300
tctcccccta ttgttttggc aacagtaatt taagtctgtg tgaacatccc ccgtagttag 360
agtgtaaaca atgtatagga aggaatatat gataagatga tgcacacat atgcattaca 420
tgtagggaac ttccaaactt catgcaacta gaasacatgc ttgaagagga ggagaggacc 480
gcccagggtc accatccagg tgccttgagg acagagaatg cagaagtggc actgttgaaa 540
tttgaagac catgtgtgaa tggtttcagg cctgggatgt ttgccaccaa gaagtgcctc 600
cgagaatttt atttccatt tgaatatag ggtggttga tgggtacggt ggttgaccca 660
acgaagaaaa tgaattctg cactttcc

```

&lt;230&gt; 39

&lt;231&gt; 585

&lt;232&gt; DNA

&lt;233&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(585)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 39

```

tagtagttgc cgcnnacctt aaanttggaa agcatgatgt ctaggaaaca tantaaaaa 60
gggtatgcct atgtgctaca gagagatggt agcatttaaa gtgcatannt ttatgtattt 120
tgaaaaatgc atatnccctc ataatccaca actgattacg aagctattac aattaaaaag 180
tttggccggg cgtgggtggc ggtgggtgac gctgtaatc ccagcacttt gggaggccga 240
ggcagcggga tcacgaggtc gggagttcaa gacctctcgt gctaacacgg tgaaggtcca 300
tctctactaa aaatcggaaa aaattacccc ggcgttggtg cggggcgctg tagtcccagc 360
tactccggcg gctgaggcag gagaatggcg tgaacccagg acacggagct tgcagtgtgc 420
caacatcacg tcactgcctc ccagcctggg ggaacggaac aagattcccg tctcanaaa 480
agaaaaaac tactnatan ttcnaattta ttttaantta caccgaactn cctcttggtt 540
ccccctaac atttatctca ccaacctcct atagggcacn actaa 585

```

&lt;210&gt; 40

&lt;211&gt; 475

<212> DNA  
<213> Homo sapien

<400> 40

tctgtccaca	ccaatcttag	aagctctgaa	aagaatttgt	ctttaaatat	cttttaaatag	60
taaatgtak	tttatggacc	aaattgacat	cttcgactgt	ttttccaaa	aaagtcaggt	120
gaatttcagc	acactgagtt	gggaattttot	tatcccagaa	gaccacccaa	tttcataattt	180
attkaagatt	gattccatcc	tccgttttca	aggagaatcc	ctgcagtctc	cttaaaaggt	240
gaacaaatcc	ttctatittt	ttttccacca	ttgtgggttt	ggactttaag	aggtgactct	300
aaaaaaacag	agaaacaaata	tgtctcagtt	gtatttaagca	cggacccata	ttatcatatt	360
cacttaaaan	aatgatttcc	tgtgcccctt	ttggcaactt	ctcttttcaa	tgtagggaaa	420
aacttagtca	ccttgaaaa	ccacaaata	aataaaactt	gtagtgtgtg	acaga	475

<210> 41  
<211> 423  
<212> DNA  
<213> Homo sapien

<400> 41

taagagggtta	cattgggtta	gaacgttaggc	acatctagag	cttagagaag	tctggggtag	60
gaaaaaatcc	taagtattta	taagggtata	ggttaacattt	aaaagttaggg	ctagtgcaca	120
ttatttagaa	agaacacata	ogggagagata	agggcaaaag	actaaagacca	gaggaacact	180
aatatttagt	gataacttcc	attcttggta	aaatragtaa	cttttaagtt	agcttcaag	240
aagattttttg	gocattgatta	gttgtcaaaa	gttagttctc	ttgggtttat	attactaatt	300
ttgttttaag	atccttggta	gtgttttaaa	aaagtcattgt	tatatcaaac	gctctaaaaa	360
attgtagcat	gttaaatgtc	acaatatact	taccatttgt	tgtatatggc	tgtaccctct	420
cta						423

<210> 42  
<211> 527  
<212> DNA  
<213> Homo sapien

<320>

<321> misc\_feature  
<322> (1)...{527}  
<323> n = A,T,C or G

<400> 42

tctcttaggc	taatgttgt	gtttctgtca	aagtaaaaag	ttaaaaattt	taaaaataga	60
aaaaagctta	tgaataaaga	atatgaagaa	agaaaatatt	tttgtacatt	tgcacaatga	120
gtttatgttt	taagctaaat	gttattacaa	aaagacccaa	aaggttttaa	aaattaaac	180
gtttgtaaa	ttacagtcac	cttatgttaa	tttataattg	aagaaagaaa	aacttttttt	240
tataaatgta	gtgtagccta	agcatcacgt	atttataaag	tctggcagtg	ttcaataatg	300
tcttaggcct	tcaatttcc	tcactgactc	ccccagagca	acttccagtc	ctgtaagctc	360
cattcgttgt	aagtgccta	tacaggtgca	ccatttattt	tacagtattt	ttactgtacc	420
ttctctatgt	ttcctatagt	ttcgtatata	aaataccact	ggttaactatn	gcccacaggt	480
taattccagt	aacacggcct	gtatacgtct	ggtancccta	gnagaaga		527

<210> 43  
<211> 331  
<212> DNA  
<213> Homo sapien

<400> 43

tcttcaacct	cgtaggacaa	cctccatatg	cctgggacct	atttttaggt	tactaccttg	60
gctgcacctt	tttaagaaaa	aaaaaagaag	aaaaagaaac	ttttccacaa	gtttctcttc	120
ctctagtgtg	aaatttagag	aaatcatgtt	tttaattttg	tgttatttca	gatcaaaaat	180

## 16

```

tcaaacactt gtaaacatta agctctctgt caatcccttg ggaagaggat tcattctgat 240
atttaacggtt csaagaaggt tgraatattg tgcttggaac acagagaanc agttatcac 300
tccctactac tattatataa taataataa c 331

```

```

<210> 44
<211> 592
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(592)
<223> n = A,T,C or G

```

```

<400> 44
ggcttagtag ttgccaggca aaatacgtt gattctctc aggagccacc ccccaacccc 60
ctgtttgctt ctgacctat acctagacta aagtcacagc agacccctag aggtgaggtt 120
cagagtgaac cttagaggga ttgtctacac tagaaagaa ctgcttgagt tttctaatctt 180
atataagcag aaatctggag aagagtcata ggaatggata ttaaggggtc gagataatgg 240
cggaaaggaat atagagttgg atcaggcttg acctattgat ttgaacccac taagtagaga 300
ttctgctttt gatgttgacg ctccgggagt taataaaggt tttaatgggt ctatagttt 360
atttgcttgg tttagctgaa tatggataaa agatggccca ctgtgagcaa gctggaaatg 420
cctgatctct ctcaagttta ttagagggaa gggatccaaa agtttaggga ganttgagtc 480
ctggraktgg attggtcaat ttgagacctc cccwtccacg ctgggagggg ccagaagata 540
caccttgac caacgcttg egaatggat ttgtgatggc ggcactact aa 592

```

```

<210> 45
<211> 567
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(567)
<223> n = A,T,C or G

```

```

<400> 45
ggcttagtag ttgccattgc gattgcttgc tcaacgagcg ttgaacatgg cggattgtct 60
agattcaacg gatttgagtt ttaccagcaa agcgaccaa ggcggggccc gagaatttatg 120
ggttggttgg ctttgaaaag atggaatcc ttagggccta gtcgaagag ccttcttgca 180
gascagttgg ttctcggggc aacgctcacc aagaigccca ttggaanagg tagcgtgtar 240
ttgggagagc ctgatagcgt gtctctctgat gatgkttctg ctggacagt gacaaaagat 300
atgcaagca agtcgaact agacgtcaag ctctcgtgagc aaattattgt agactctac 360
tttactgtg aggaatgata gccaaaggtg gggactttta gactaaggtg gtttgtactt 420
gcgncgatga tccnaggcag aagcamctga tgcctagttt taccgggca actactaagc 480
cgaattccag cscactggcg gccttacta attggatccg anctcggtae cagcttgatg 540
catascttga gttwtctata ntgtcnc 567

```

```

<210> 46
<211> 908
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(908)
<223> n = A,T,C or G

```

```

<400> 46
gagcgaaaga cggagggcag ngnntangng cggangaagcg gagagggcca aaagcaaac 60
gccttccccg gggggtcocg attcattaaag gcaggtggag gacagggttc ccgatggaag 120
ggggcagggg cgcacgcaat taatgtgagt aggcatttc ttacaccccg ggcttaacat 180
ttaagcttcg ggttggtatg tgggtgggaat tgtgagcgga taacaaattc acacaggaaa 240
cagctatgac catgattacg ccaagctatt taggtgacat tatagaataa ctcaagttat 300
gcataaagct tggtaocgag ttgggatcca ctagttaacg ccgccagtgt gtcgaattcg 360
gcttagtagt tgcagaccat ggagtgctac ctaggctaga atactgagy tctccctag 420
cctcactcac attaatigt atcttttcta cattagatgt cctcagcgcc ttattttctg 480
tggacwatcg ataatataat cctgatagga tgatagcagc agattaatta ctgagagtat 540
gttaattgtt catccctctt atataacgta tttgcatttt aatggagcaa tcttgagat 600
aatccctgaa ggcacaggaa tgaatcttga gggtagagaa gccagaaaca gtgtccagct 660
gcagtttgtg gagcagggtg tattatgtat gtctcagaag tgacacataa tgggcaacta 720
cfaagcccca attccagcac actggcgggc gttactaatg gatccagagt cggtaacca 780
cttgatgcct agcttgagta tctatagtgt cactaaatag cctggcgtaa tcatggctat 840
agctgtttcc tgtgtgaat tgttatccgc tcccaattcc ccccccata cgaacggaa 900
cataaagt
960

```

```

<210> 47
<211> 480
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```

<400> 47
tgcaacaag gaaagtttta aatttccctt tgaggattot tggtagcat caaattcagt 60
ggtttttaag gttgttttct gtcaaatcac tctaatctta agcaaacacg tatatggaag 120
cacagatata atattacaca gatataagag gatttgatct aaagtataga tagttggggg 180
ctttaatttc tggaaactag gtctcccat ctcttctgt gttagggaac ttcttggaag 240
cggggattct aaagtctctt ggaagacagt ttgaanoca ccatgttgtt ctcaagtaact 300
ttatttttaa aaagttaggtg aacattttga gagaganaag ggttgggttg agatgaagtc 360
ccccccccc cttttttttt ttttagctga aatagatacc ctatgttcaa ngaarggatt 420
attatttacc atgcaytar acacatgcct tttgatgggc aytccctac cctccttaag 480

```

```

<210> 48
<211> 591
<212> DNA
<213> Homo sapien

```

```

<400> 48
aagagggtag cagtggaat ttccgcttca ctagtctggt gtggctagtc ggtttcgtgg 60
tggcaaacat taogaaattc caactcaacn gttcttggcc gttcaagcgg gagtacccgc 120
gagagtggtg gcgtgaattc tggcctttct ttgcctgggg atcggtagcc gccatcatcg 180
gtatgtttat caagatcttc tttaactaac cgacctctcc gattthacct ccagagccgt 240
ggttttaacg ggggaggggg atccagtccg gcaggtactg gtccagatc ttccgcacgc 300
tcgtgacat gcctatcaac ttctgtctca ataagttgtg gacottccga accgtgaagc 360
actccgaaa cgtccggttg ctgctgtgct gtgactccca aaatcttgat aacaacaagg 420
taaccgaata gcgctaagga accccggcat ctgggtact ctgcattatg gtacccctta 480
agccgaatto cagcacactg gggccggtta cttaattgat ccgaactccg taaccaagcc 540
tgatgcttaa cttgagttat tctatagtgt ccttaaaata acctggcggt a 591

```

```

<210> 49
<211> 494
<212> RNA

```



&lt;213&gt; Homo sapien

&lt;400&gt; 49

aagagggtac	ctgccttgaa	atttaantgt	ctaaggaaar	tgggagatga	ttaaaggttg	60
gtgtggccta	gtccacccaa	aattgtattta	ttacatccctg	ctcctttcta	gittgacagga	120
aagaaagctg	chgtggggaa	aggagggata	aatactgaag	ggatttacta	aacaaatgtc	180
catcacagag	ttttcctttt	tttttttttg	agacagagtc	ttgctctgtc	acccaggctg	240
gaatgaagwg	gtatgatctc	agttgaatgc	aaactctacc	tcctagggtc	aagcgattct	300
catgcctcag	ccctctgagc	agctgggact	ataggcgcat	gctaccatgc	caggctaatt	360
tttatatttt	tattagagac	gggggtgttg	catgttgacc	aggcaggctc	cgaaactcctg	420
ggcctcagat	gatctgcccc	acggtaccct	ctta			454

&lt;210&gt; 50

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 50

aagagggtac	caaaaaaaag	aaaaaggaaa	aaaagaaaaa	caacttggtat	aaggctttct	60
gtgtgcataca	gctttttttt	tttaastaaa	tgggtccaaac	aaatgttttt	gcattcacac	120
caattgtctg	ttttgaaalc	gtactcttca	aaggatatttg	tgcagatcaa	tccaatagtg	180
atgcctccgta	ggtttttgtg	actgcccacg	ttgtctacct	tctcatgtag	gagccattga	240
gagactgttt	gyacatgcct	gtgttcatgt	agccgtgatg	tcggggggcc	gtgtacatca	300
tgttaccgtg	gggtggggtc	tycatttggt	gctgggcata	tggtgggtg	cccatcatgc	360
ccatctgcac	ctgcataagg	tattggggcg	tttgatccat	atagccatga	ttgctgtggt	420
agccactgtt	catcatgtgc	tyggacatgc	tgttaccctc	tta		463

&lt;210&gt; 51

&lt;211&gt; 399

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 51

cttcaacctc	ccaaagtgcct	gggattacag	gactgagcca	ccacgctcag	ccaaagcctc	60
tttttcaacta	ccctctaagc	gatctaccac	agtgttgagg	ggctaaagag	cagtgcacat	120
tgattacast	aatggaactt	agattttatta	atttaacatt	tttccttagc	atgttggttc	180
cataattatt	aagagtatgg	acttacttag	aaatgagcct	tcatttttaag	aatttcactc	240
ttgacctctc	ctattagtct	gagcagtatg	acactataag	tattttattt	aactaaccta	300
ccctgagcta	ttccttttta	aaaggtctata	tacatgaatg	tgtattgtca	actgtaaagc	360
ccacacagtat	ttaattatat	catgatgtct	ttgaggttg			399

&lt;210&gt; 52

&lt;211&gt; 392

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 52

cttcaacctc	aatcaacctt	ggtaattgat	aaaatcatca	cttcaacctc	tgatataatg	60
gcaataatta	tctgagaaaa	aaaagtggtg	aaagattaaa	cttgcatctc	tctcagaato	120
ttgaaggata	tttgaataat	tcaaaagcgg	aatcagtagt	atcagccgaa	gaaactcaat	180
tagctagaaac	gttggaccca	tggatctaaag	tccttgccct	tcactaaac	agctgatttg	240
ttttgtgtaa	acctctacaa	cgcttggggt	tggctggcctc	atttgcacaa	gtaaaggctg	300
aaataggaaag	ataatgaacc	gtgtcttttt	ggtctctttt	ccatocatta	ctctgatttt	360
acaasgagge	ctgtattccc	ctggtagagt	tg			392

&lt;210&gt; 53

&lt;211&gt; 179

&lt;212&gt; DNA

```

<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(179)
<223> n = A,T,C or G

<400> 53
ttcgggtgat gctctctcag gctacagtga agactggatt acagaaaggt gccagcgaga      50
tttcagattc ctgtaaacct ctasagaaaa ggagtcgcgc ctcaactgat gtagaaatga      120
ctagttcagc atacngagac acatctgect ccgattctag aggactgagt gacctgcac      179

<210> 54
<211> 112
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(112)
<223> n = A,T,C or G

<400> 54
ttcgggtgat gctctctcag gctacatcat natagaagca aagtagaana atcnngtttg      60
tgcattttcc cacanacaaa attcaaatga atggagagaa ttggganagt at      112

<210> 55
<211> 225
<212> DNA
<213> Homo sapien

<400> 55
tgagcttcog cttctgacaa ctcaatagat aatcaasagga caacttiaac agggattcac      60
aaaggagtat atccaaatgc caataaacat ataaaaagga attcagcttc atcatcatca      120
gaagwatgca aattanaacc ataattgaga accactatgt cccactegaa tagataaant      180
cttaaaagac tggtaaaaac aagtgtttgt aaggcaagag gagca      225

<210> 56
<211> 175
<212> DNA
<213> Homo sapien

<400> 56
gtctctcttg ccttaccaac acattctcaa aaacctgtta gactcttaag cattctcttg      60
ttagtatttg gattttaccc ctgtctata aagatgttat gtacaaaaa tgaagtggag      120
ggccataccc tgagggaggg gagggatctc tagtgtttgc agaagcggaa gtcca      175

<210> 57
<211> 223
<212> DNA
<213> Homo sapien

<400> 57
agccatttac caccatgga tgaatggatt ttgtaattct agctgttgta ttttgtgaat      60
ttgtcaattt tgttgttttt ctgtgaacaa catcacattg atatgggagg taaggagtg      120
tccagttgc tcttggtcac tccctttata gccattactg tcttgtttct tgttaactcg      180
gttaggtttt ggtctctctt gctccactgc aaaaaaaaa aaa      223

```

20

<210> 58  
 <211> 211  
 <212> DNA  
 <213> Homo sapien

<400> 58  
 gttcgaaggt gaacgtgtag gtagcggatc tcccaactgg ggaactgtca aagaagaatt 60  
 aactgacttg gatcaatcaa atgtgactga ggaaacacct gaaggtgaag aacatcctcc 120  
 agtggcagac actgaataa eggagactga agtgaagag gtaaaagagg aggtgccaaa 180  
 agagatgact ttggatgggt ggtaatggc t 211

<210> 59  
 <211> 208  
 <212> DNA  
 <213> Homo sapien

<400> 59  
 gctcctcttg ccttaaccac ttgcaccca tcatcaacca tgtggccagg ttgcagccc 60  
 aggtgcaca tcaggggact gctcgcact acttcactgt ttgtctgtg actgatggtg 120  
 ctgtgacgga tgtggagcc acacgtgagg ctgtggtgag tgcctcgac ctgcccatgt 180  
 cagtgcact tatgggtggt aatggct 208

<210> 60  
 <211> 171  
 <212> DNA  
 <213> Homo sapien

<400> 60  
 agcatttac caccctact aattctagt tcaactcca acttcttcca taanacatct 60  
 aaccactgac accagttggc aatagcttct tcttcttta acctcttaga gtatttatgg 120  
 tcaatgcac scattctgc aactgaataa agttggttaag gcaagaggag c 171

<210> 61  
 <211> 134  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(134)  
 <223> n = A,T,C or G

<400> 61  
 cgggtgagtc ctctcagga ttgtgtgtt ccaactcact caactggctc ttctcagca 60  
 actgggtgaan atgtactca gaaanccac acagcngct cgggtgggg tgggaanct 120  
 ccaactctc nggc 134

<210> 62  
 <211> 145  
 <212> DNA  
 <213> Homo sapien

<400> 62  
 agaggggtaca tatgaacag tatataagg aagaagtga ctgagaggaa ctctatcaag 60  
 gccatttaat caataagtga tagagtcag gtcaccca ggtgtgacgg attccaggtc 120  
 ccaagctctt taatggtaac ctctt 145

<210> 63

<211> 297  
 <212> DNA  
 <213> Homo sapien

<400> 63  
 tgcactgaga ggaattcaca gggtttatgc caaagaacaa accagtcttc tgcagcctaa 60  
 ctcatcttgtt ttggggctgc gaagccatgt agagggcgat caggcagtag atggtccttc 120  
 ccacagtcag cggcatgggtg gtccggtaaa gcatttggtc aggcaggcct cgtttcaggt 180  
 agacggggac aatcagcgtt tctggaaaaa ctlttctaga tctggagcgt tgtttttccc 240  
 agcataatca tacaatgttg aatcggaggt cagtttagtt ggttaaggca gaggagc 297

<210> 64  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 64  
 gcactgagag gaacttcaca tactatgttg aataggagtg gtgagagagg gcaccccttt 60  
 cttgtgcggy ttccaaaagg gaatgcttcc agcttttgcg ctttcagtat aatattaaag 120  
 aatgttttacc caatttctgt ctggcctgtt ttctctgtgt ttgtttggtc tcttcattct 180  
 ccattttttag gcctttacat gtttaggata tattctcttt aatgatactt cacttttggc 240  
 atcttttctg agactctact catagtgtga taagcactgg gtttgtaagg caagaggagc 300

<210> 65  
 <211> 203  
 <212> DNA  
 <213> Homo sapien

<400> 65  
 gctctctcttg ccttaaccaac tcaccacgta tctcagcaat ttatctcgtt ttacctaaag 60  
 aacagcctgt atccaaacac ttaacacact cacttgaaaa gttcaggcaa caatcgcttt 120  
 ctcatgggtc cctctgctcc agttctgaac ctttctcttt tctcagaaca tgcatttarg 180  
 tggatagaag ttctctctag tgc 203

<210> 66  
 <211> 344  
 <212> DNA  
 <213> Homo sapien

<400> 66  
 taagggggacc cctgccttga gaaagcgaga ctcaactctga agctgaastg ctgttgccct 60  
 tgcagtgtgt gtacagaggag ttctgtgctt tctgggctaa ggtcctctga tgaccctga 120  
 caaggagag gcagagttgt gtgcaccttc tcatggcttc gtccaggcat catggactgc 180  
 caacacacaaa atgcctgttt tattaacgac atgaatttga aggagagaa scaattcact 240  
 gatgtggctc gtaaccatgg atatggctac ataccagagt gtgattatgt aaaggttaac 300  
 tccacccacc tcatgtggaa actagcctca atgcagggtt ccca 344

<210> 67  
 <211> 157  
 <212> DNA  
 <213> Homo sapien

<400> 67  
 gcactgagag gaacttcgta gggaggttga actggtgctt gaggaggggg aacaacaggg 60  
 taaccagact gatagcatt ggatggataa tatggtggtt gaggagggac actacttata 120  
 gcagaggttt gtgtatagcc tgaggaggca tccccc 157

<210> 68

22

<211> 137  
 <212> DNA  
 <213> Homo sapien

<400> 68  
 gcactgagag gaacttctag aaagtgaag tctagacata aaataaata aaattttaan 60  
 actcaggaga gacagccag caaggtggct caagcctgta atcccagaaac tttagggagcc 120  
 tgaggaggca tcaccag 137

<210> 69  
 <211> 137  
 <212> DNA  
 <213> Homo sapien

<400> 69  
 egggtgatgc ctctcaggc tctattttga agactatoga ctggacttct tatcaactga 60  
 agaatccgtt aaaaatacca gtgtatttat ttctacctgt caaaatccat ttcaaatgtt 120  
 gaagtctctc tcagtgc 137

<210> 70  
 <211> 220  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(220)  
 <223> n = A,T,C or G

<400> 70  
 agcatgttga gccagacac gcaatctgaa tgagtgtgca cctcaagtaa atgtctacac 60  
 gctgcctggc ctgacatggc acaaatcnc gtggagggca caactctgct cngcctacaa 120  
 cgagggcaat ctcatwgaca ggttccacc accaaactgc aagaggctca nnaagtactr 180  
 ccagggtmya aggacmagg tgggaytyca yacacatct 220

<210> 71  
 <211> 353  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(353)  
 <223> n = A,T,C or G

<400> 71  
 cgttagggtc tctatccact gctaaaccat acaactgggt aaacagggac cttttaacat 60  
 tccanctaa atatgccaag tgacttcaca tgtttatett aaagatgtcc aaaaagcaac 120  
 tgattttctc ccttaaacct gtgatggtag gatgatccan cctgagtggc ctacagcaag 180  
 ttaagtgcac ggtgctaaat gaangtgacc tgagatcacg catctacaag gcagtaoctc 240  
 tcaacncagg gcaactttgc ttctcanagg gcaattagca gtgtctgaag taattttctgt 300  
 attacaactc acggggcggg gggtagatat ctantggana gnagacctc acg 353

<210> 72  
 <211> 343  
 <212> DNA  
 <213> Homo sapien

```

<400> 72
gcactgagag gaacttccaa tacyatkac agagtgaaca rgccarccyac agaacaggag      60
aaatgtthyy caatctctcc atctgacaaa aggtctaatat ccagactota awaggaaatt      120
aaacaaatttt atgagaanaa aacacacaaac ctcaacaaaa agtgggtgaa ggawatgctc      180
aaargaaagac atytattcag ccagtaaaac yatgaaaaaa aggtctatca tcaatgawca      240
ttagagaaat gcaaatcaaa accacaatga gataccatct yayrccagtt agaaagggtg      300
tcattaaaaa stcaggaaac aacagatgct ggacaaggty tca                                342

```

```

<210> 73
<211> 321
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)..(321)
<223> n = A,T,C or G

```

```

<400> 73
gcactgagag gaacttcaga gagagagaga gagttccacc ctgtacttgg ggagagaaac      60
agaagggtgag aaagtctttg gttctgaagc agcttctaag atcttttcat ttgcttcatt      120
tcaaggttcc catgtctgca aagtgcacac ctttggggta ctgtttttctg agctccagtg      180
ataactcatt tatcaagggg agtatccacg aaaaaaagtg agcaaatctt aaaaagggtg      240
cttgagttca gcuttaaata ccattctgaa atgacacaga gaaagaagga tgttgggtgg      300
gagtggatag agaccctaac g                                321

```

```

<210> 74
<211> 321
<212> DNA
<213> Homo sapien

```

```

<400> 74
gcactgagag gaacttcaga gagagagaga gagttccacc ctgtacttgg ggagagaaac      60
agaagggtgag aaagtctttg gttctgaagc agcttctaag atcttttcat ttgcttcatt      120
tcaaggttcc catgtctgca aagtgcacac ctttggggta ctgtttttctg agctccagtg      180
ataactcatt tatcaagggg agtatccacg aaaaaaagtg agcaaatctt aaaaagggtg      240
cttgagttca gcuttaaata ccattctgaa atgacacaga gaaagaagga tgttgggtgg      300
gagtggatag agaccctaac g                                321

```

```

<210> 75
<211> 317
<212> DNA
<213> Homo sapien

```

```

<400> 75
gcactgagag gaacttccac atgcactgag aaatgcattt tcccaaggac tgaagtctcg      60
aaetcaagttt ctcaagttcc atcttgattc aggtgtttac cagctacaca acottaagca      120
agtcagataa ccttagcttc ctcatatgca aaatgaguet gaaaagtaet catcgctgaa      180
ttgtttttgag gattagaaaa acatctggca tgcagtagaa attcaattag tattcatttt      240
nattcttcta aattaaacaa ataggatttt tagtgggtgga acttcagaca ccagaaatgg      300
gagtggatag agaccct                                317

```

```

<210> 76
<211> 244
<212> DNA
<213> Homo sapien

```

```

<400> 76

```

```

cgttagggtc tctatccact cccactactg atcaaacctct atttatttaa ttatttttat    60
catcctttta gttctgggat acscgtgcag catgocgcag tttgttgcct aggtatacac    120
ttgcctgggt ggttttgcgc acccatcagt ccatcateta cattagggtat ttctctaat    180
gtctaccttc ccttagcccc ttacaccccc aacaggctct agtggtgtga gttctctctca    240
gtgc                                           244

```

```

<210> 77
<211> 254
<212> DNA
<213> Homo sapien

```

```

<400> 77
cgttagggtc tctatccact gaaatctgaa gcacaggagg aagagaagca gtyctagtga    60
gatggcaagt tcttttaccg cactctttta catttygttt agttttascc tttattttatg    120
gataataaag gtttaattta ataatgattt attttaagga attccrxaat ttgcataaatt    180
ctctcttttg agataccctt ttatctccag tgcaggtctg gatcaagty atcaamagaa    240
gttctctctca gtgc                                           254

```

```

<210> 78
<211> 355
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)..(355)
<223> n = A,T,C or G

```

```

<400> 78
ttcgatacag gcaaacatga actgcaggag ggtgggtgac atcatgatgt tgcgatgggt    60
cgggatgggc acgaagagcg actggancac gtgcttaagt ccttttgcct tcttgatggc    120
cctgagggga cgcaggaccc ttatgacctt cagaatcttc ccaacggggg atggcaactg    180
attgantccc antgacacca gagacacccc aaccacccag atatcanlat attgatgtag    240
ttctgttaga nggcctcctt gtggaggaaa gctccatnag ttggtcatct tcnacaggat    300
ctcaacagtt tccgatggct gtgatggga tagtcantat taacntgtta tggaa    355

```

```

<210> 79
<211> 406
<212> DNA
<213> Homo sapien

```

```

<400> 79
taagagggtc ccagcagaaa gtttagtctc atcagatagc atcttatacg agtaatatgc    60
ctgctatttg aagtgttaatt gagaaggaaa atttttagct gctcactgac ctgctctgtg    120
cccagtgac agctaggatg tgcattctcc agcatccag agactgagtc aagttgttcc    180
ttaagtcaga acagcagact cagctctgac attctgattc gaatgcacct gttcaggaat    240
cggaaatctg togtatgac tggacagctt gtggcaagtg aatttgctg taacaaggca    300
gattttttta aatttatatt gtaataaatg tgtgtgtgtg tgtgtgtata tatatatata    360
tgtacagtta tctaagttta tttaaaagtt gtttggtaac ctctta    406

```

```

<210> 80
<211> 327
<212> DNA
<213> Homo sapien

```

```

<400> 80
tttttttttt ttactoggo toagtctaat cctttttgta gtacctcata ggcacagact    60
..agggctaggg tnatgattaa taagagggat gaactaacta ttagtggcag gttagtgttt    120

```

```

tctaggggtc atggtagggg taaaaggagg gcaatttcta gatcaaatca taagaaggta 180
atagctacta agaagaattt tatggagaaa gggacggggg cgggggatat agggtcgaag 240
ccgcactcgt aaggggtgga tttttctatg tagccgttga gttgtggtag tcaaaatgta 300
ataattatta gtatgaagcc taggaga 327

```

<210> 81  
 <211> 318  
 <212> DNA  
 <213> Homo sapien

```

<400> 81
tagtctatgc ggttgattcg gcaatccatt atttgggtga ttttgcgatg tgttttgcga 60
attgcattca taatttatta tgcatttatg cttgbatctc ctacgtcatg gtatataatc 120
catgcttttt atgtttttgtc tgacataaac tottatcaga gcccttttgc cccagggatt 180
caataaatat taacacagtc tacatttatt tggtagaat tgcatactct ctgtactgaa 240
agcacattaa gtaacaaag caagtggaga gaatgaaaag cactactcac aacagtatc 300
atgattgggc atagacta 318

```

<210> 82  
 <211> 338  
 <212> DNA  
 <213> Homo sapien

```

<400> 82
tcttcaacct ctactccac taatagcttt ttgatgactt ctacgaagcc tgcctaacct 60
cgctttacc cccactatta acctactggg agaactctct gtcttagtaa ccacgttctc 120
ctgatcaaat ctactctcc tacttacagg actcaacata ctactcaccg cctctactc 180
cctctacata tttaaccaaa caaatgggg ctactcaacc caccacatta acacataaa 240
acctctatc aacagagaaa aacctctcat gttcatacac ctatccccc ttctctctct 300
atcctcacc cccgacatca ttacggggtt ttctctct 338

```

<210> 83  
 <211> 111  
 <212> DNA  
 <213> Homo sapien

```

<400> 83
agccatttac caccatcca caaaaaaaaa aaaaaaaag aaaaatatca aggaataaaa 60
atagactttg aaaaaaaagg aacatttgcg ggcctgagga ggcctaccc g 111

```

<210> 84  
 <211> 224  
 <212> DNA  
 <213> Homo sapien

```

<400> 84
tcgggtgatg cctcctcagg ccaagaagat aaagcttcag acccttaaca catttcana 60
aaggaaagaa ggagaaaaa gggcatcacc cccgttccga agggtcaggg agyaggaast 120
tgaggtggtt tcacgagttc cygacaactc etttgatgcc aagcgaggtg cagcaggaga 180
ctggggagag agagccaatc aggttttga gttcctctca gtgc 224

```

<210> 85  
 <211> 348  
 <212> DNA  
 <213> Homo sapien

```

<400> 85
gcactgagag gaacttcgtt ggaacgggt tttttctatg taaggctaga cagaagaatt 60

```



```

etcagtaact tctttgtgtt gtgtgtattc aactcacasa gttgacgat cctttacaca 120
gagcagactt gtaacactct tttgttgaa tttgcaagt gagatttcag acgctttgaa 180
gttaaaaggtt gaaaaggaaa tatcttcta taaaactag acagaatgat tctcagaacc 240
tcttttgtga tgtgtgcgtt caactcacag agtttacct ttcttttctt agagcagtt 300
aggaacact ctgtttgtt agttgcag tggatagaga ccttaccg 360

```

```

<210> 86
<211> 293
<212> DNA
<213> Homo sapien

```

```

<400> 86
gcactgagag gaacttcytt gtgtgtktg yattcaactc acagagttga aawtemitt 60
acabagwkaa ggtttkcaas cactttttt gtmgastytg caagwggaka tttarccrc 120
tttgwgggycw wysktmgaw aggrwatatc ttewytmra amctagacag aakattctc 180
akaawstyyw ygtgawgw tgcattcaac tcacagagkt kacmwtct kytaatrqag 240
cagttwkyga actctmttct ttgtgattct gcaagttgat agagaccta acg 300

```

```

<210> 87
<211> 10
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> Primer for amplification from breast tumor cDNA

```

```

<400> 87
ctcttaggt 10

```

```

<210> 88
<211> 10
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> Primer for amplification from breast tumor cDNA

```

```

<400> 88
agtagttgcc 10

```

```

<210> 89
<211> 11
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> Primer for amplification from breast tumor cDNA

```

```

<400> 89
ttcagttatg c 11

```

```

<210> 90
<211> 10
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> Primer for amplification from breast tumor cDNA

```

<400> 90  
 tggtaaaagg 10  
 <210> 91  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
 <400> 91  
 tcggtcataag 10  
 <210> 92  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
 <400> 92  
 tacaacgagg 10  
 <210> 93  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
 <400> 93  
 tggattggtc 10  
 <210> 94  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
 <400> 94  
 ctttctaccc 10  
 <210> 95  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
 <400> 95  
 ttttggctcc 10

<210> 96  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 96  
 ggaacccaatc 10  
  
 <210> 97  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 97  
 tggatacagg 10  
  
 <210> 98  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 98  
 ggtactaagg 10  
  
 <210> 99  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 99  
 agtctatgcy 10  
  
 <210> 100  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 100  
 ctatccatgg 10  
  
 <210> 101  
 <211> 10

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 101  
 tetgtccaca 10  
  
 <210> 102  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 102  
 aagagggtac 10  
  
 <210> 103  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 103  
 ettcascctc 10  
  
 <210> 104  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 104  
 gctcctcttgc ccttaccacc 20  
  
 <210> 105  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 105  
 gtaagtcgag cagtgtgatg 20  
  
 <210> 106  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 106  
 gtaagtcgag cagtctgatg 20  
  
 <210> 107  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 107  
 gacttagtgy aaagaatgta 20  
  
 <210> 108  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 108  
 gtaattccgc caaccgtagt 20  
  
 <210> 109  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 109  
 atgyttgac gatagtggaa 20  
  
 <210> 110  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 110  
 acggggacc ctgcattgag 20  
  
 <210> 111  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA

<400> 111  
 tattctagac cattoctac 20  
  
 <210> 112  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 112  
 acctaccac tttagcgttc 20  
  
 <210> 113  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 113  
 cgggtgatgc ctctcaggc 20  
  
 <210> 114  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 114  
 agcatgttga gccacagacac 20  
  
 <210> 115  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 115  
 gacacattgt ccagcatctg 20  
  
 <210> 116  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 116  
 tacgtgcac caatgtggag 20

<210> 117  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 117  
 cgttagggtc tctatccact 20  
  
 <210> 118  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 118  
 agactgactc atgtccocta 20  
  
 <210> 119  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 119  
 tcctgctcgt gtgactcaag 20  
  
 <210> 120  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 120  
 caagattcca taggctgacc 20  
  
 <210> 121  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
  
 <400> 121  
 acgtactggt cttgaaggtc 20  
  
 <210> 122  
 <211> 20  
 <212> DNA

<213> Artificial Sequence  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
 <400> 122  
 gacgcttgge cacttgacac 20  
 <210> 123  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
 <400> 123  
 gtatcgacgt agtggtctcc 20  
 <210> 124  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
 <400> 124  
 tagtgacatt acgacgctgg 20  
 <210> 125  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
 <400> 125  
 cgggtgatgc ctactcagga 20  
 <210> 126  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Primer for amplification from breast tumor cDNA  
 <400> 126  
 atggtatatt tgggggctg sca 20  
 <210> 127  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence  
 <220>



<223> Primer for amplification from breast tumor cDNA

<400> 127  
 ccggtatctc ctgctgggta tt 22

<210> 128  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for amplification from breast tumor cDNA

<400> 128  
 ctgcctgagc cccaaatg 18

<210> 128  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for amplification from breast tumor cDNA

<400> 129  
 ccggaggagg aagctagagg aata 24

<210> 130  
 <211> 14  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 130  
 tttttttttt ttag 14

<210> 131  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Predicted Th Morife (B-cell epitopes)

<400> 131  
 Ser Ser Gly Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val  
 1 5 10 15  
 Gly Ile

<210> 132  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Predicted Th Motifs (B-cell epitopes)

<221> VARIANT

<222> (1)...(22)

<223> Xaa = Any Amino Acid

<400> 132

Gln	Gly	Ala	Ala	Gln	Lys	Pro	Ile	Asn	Leu	Ser	Lys	Xaa	Ile	Gln	Val
1				5				10						15	
Val	Gln	Gly	His	Asp	Gln										
															20

<210> 133

<211> 23

<212> FRT

<213> Artificial Sequence

<220>

<223> Predicted Th Motifs (B-cell epitopes)

<400> 133

Ser	Pro	Gly	Val	Phe	Leu	Glu	His	Leu	Gln	Glu	Ala	Tyr	Arg	Ile	Tyr
1				5				10						15	
Thr	Pro	Phe	Asp	Leu	Ser	Ala									
															20

<210> 134

<211> 9

<212> FRT

<213> Artificial Sequence

<220>

<223> Predicted HLA A2.1 Motifs (T-cell epitopes)

<400> 134

Tyr	Leu	Leu	Val	Gly	Ile	Gln	Gly	Ala
1				5				

<210> 135

<211> 9

<212> FRT

<213> Artificial Sequence

<220>

<223> Predicted HLA A2.1 Motifs (T-cell epitopes)

<400> 135

Gly	Ala	Ala	Gln	Lys	Pro	Ile	Asn	Leu
1				5				

<210> 136

<211> 9

<212> FRT

<213> Artificial Sequence

<220>

<223> Predicted HLA A2.1 Motifs (T-cell epitopes)

```

    <221> VARIANT
    <222> (1)...(9)
    <223> Xaa = Any Amino Acid

    <400> 136
Asn Leu Ser Lys Xaa Ile Gln Val Val
1                               5

    <210> 137
    <211> 9
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> Predicted HLA A2.1 Motifs (T-cell epitopes)

    <400> 137
Glu Val Val Gln Gly His Asp Gln Ser
1                               5

    <210> 138
    <211> 9
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> Predicted HLA A2.1 Motifs (T-cell epitopes)

    <400> 139
His Leu Gln Gln Ala Tyr Arg Ile Tyr
1                               5

    <210> 139
    <211> 9
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> Predicted HLA A2.1 Motifs (T-cell epitopes)

    <400> 139
Asn Leu Ala Phe Val Ala Gln Ala Ala
1                               5

    <210> 140
    <211> 9
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> Predicted HLA A2.1 Motifs (T-cell epitopes)

    <400> 140
Phe Val Ala Gln Ala Ala Pro Asp Ser
1                               5

    <210> 141
    <211> 9368

```

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 141

gctcggggcc	gcgagctcaa	ttaacccctca	ctaaagggag	tgcactcgat	cagactgtta	60
ctgtgtctat	gtagaagaa	gtagacataa	gagattccat	tttgttctgt	actaagaaaa	120
attcttctgc	cttgagatgc	tgtaaatctg	taaccctagc	cccaaccctg	tgctcacaga	180
gacatgtgct	gtgttgactc	aaggttcaat	ggatttaggg	ctatgctttg	ttaaaaagt	240
gcttgaagat	aatatgtctt	ttaaaagtca	tcaccattct	ctaactctca	gtaccacagg	300
acaaatata	ctcgggaagg	ccgcagggac	ctctgtctag	gaagccagg	tattgtccaa	360
gatttctccc	catgtgatag	ccgtagatat	ggcctcatgg	gaagggtaag	acctgactgt	420
ccccagccc	gacatccccc	agcccgacat	ccccagccc	gacacccgaa	aagggctctgt	480
gctgaggagg	attagtaaaa	gagggaaggcc	tctttgcagt	tgaggtaaga	ggaaggcatc	540
tgttctctgc	tgttccctgg	gcataagaat	gtcttggtgt	aaaaccgat	tgtatgttct	600
acttactcag	atagagaaaa	acatccctag	ggctggaggt	gagacacgct	ggcgccata	660
ctgtctcttt	atgcaccgag	atgtttgtat	aagtgcacat	caagggcacag	caacttctct	720
taactctatt	tatgacacag	agacctttgt	tcacgttttc	ctgtctgccc	tctcccacat	780
attacccat	tggcctgcaa	catcccccctc	tcggagatgg	ttagagataat	gatcaataaa	840
tactgaggga	actcagagac	cagtgtccct	gtaggtctctc	cgtgtgctga	ggccgggtcc	900
cttgggctca	cttttctttc	ctataacttt	gtctctgtgt	ctctttcttt	tctcagctctc	960
tcttccaccc	tgaagagaaa	taaccacagg	tgtggagggg	caggccaccc	cttcaataat	1020
ttactagcct	gttcgctgac	aaacagactg	gtgtgcaga	aggttgggtc	ttgggtgttc	1080
ccgggtggca	ggcatggggc	aggtggggag	gtctccagcg	ccgtgtgcaa	atctccagga	1140
aagtgcagga	aacagcacca	aggtgtgattg	taaatlttga	tttggcgagg	caggtagcca	1200
ttccagcgca	aaaatgocca	ggaaagcttt	tgtgtgtctt	gtaggcaggt	agggcccaag	1260
cacttcttat	tggctaattgt	ggagggaaac	tgcacatcca	ttggctgaaa	tctcgtctta	1320
tttgaggctg	actgagcgcg	ttcctttctt	ctgtgttgcc	tggaaaacga	ctgtctgctt	1380
agtaacatct	gatacagctt	cccatgggcc	ggcgtttccg	gaagcccgcc	ctcccatctc	1440
cggaagcctg	ggcaaggttt	ggctctgacg	ggcctccag	gtgcaagtg	ggaagtgtga	1500
gtctccagtc	ttgggctatt	cgccacagtg	ccctccggac	atgggaagct	ggagggtcag	1560
cagcgtggag	tccctggcctt	ttggtccac	gggtgggaaa	ttggccattg	ccacggcggg	1620
aactgggact	cagctggccc	ccggccgctt	tctcatccgt	ccacgggact	cgtgggcgct	1680
cgcactggcg	ctgatgtagt	ttcctgacct	ctgaccgcta	tgtctccag	attaaaggta	1740
aaaacggggc	tttttcagcc	ccctcgggta	aaacgccttt	tgtttctatg	gcaggtgttt	1800
tgttgaaagg	ctgggagggg	gtgacccgca	ggttgaggtt	tattaaaaata	cattcctggt	1860
ttatgtttatg	tttataataa	agacccccaa	cccttccaaa	atctcaactt	ttgccagttg	1920
tattatattg	tggactgtct	ctgataagga	cagccagtta	aaatggaaat	ttgttgttgc	1980
taattaaaacc	aatttttagt	tctgggtgtt	gtctcaatag	caacaacttc	tcaggcttta	2040
taaaacata	ttctctgggg	gaattttctg	tgtaaagccac	agcaggttag	tttggaaattg	2100
ttttaaaggga	agtaagttcc	tgtttttgat	atcttagtag	tgtaatgcc	aacctgggtt	2160
ttactaaacc	tgtttttaga	ctctcccttt	cccttaataca	ccatagccttg	tttccacctg	2220
aattgactct	cccttagcta	agagcgccag	atggactcca	tcttggtctt	ttcaactggca	2280
gccccttccct	caaggactta	acttgtgcaa	ctgactccc	agcacatcca	agaaagcaat	2340
taactgttaa	ctactgttgg	caagctatat	ccgcagttcc	gaggaattca	tccgattgat	2400
tatgcccnaa	agcccgcgct	ctatccactt	gtaaataatct	taaaagccct	gcacctggaa	2460
ctattaaact	tccgttaacc	atttatccct	ttacttttt	tgttacttt	atttctgtta	2520
aattgtttta	actagacctc	ccctcccttt	tctaaacaaa	agtataaaag	aagatcttagc	2580
cccttcttca	gagcggagag	aattttgggc	attagccatc	tcttggcggc	cagctaaaaa	2640
aattggacttt	taatttgcct	caaatgtgtg	cgttttctct	aactcgctca	ggtacgacat	2700
ttggaggccc	cagcgagaaa	cgccacgggg	agaaaagcca	ccgggcgaga	gcggggcccg	2760
ctgtgtgctc	ccccggaggg	acagccagct	tgttaggggg	agtccacact	gaaaaaaaaa	2820
tttccaggtc	cccaaggggt	gacgtctctc	oggaggaag	oggatcgact	acctggcggg	2880
tgcaccccaa	aattccacct	ctgagtctct	aactgttgac	ccgggggtca	ggtaggtcag	2940
atttgacttt	ggttctggga	gagggaaagg	acactgatga	gggtctccct	cttttgactc	3000
tgcacatttc	tctaggatgc	ttaggggttag	agccctaggt	ttctgtttag	cgcctctgtg	3060
tctctgtctg	ggaggggaagt	ggccctgaca	ggggccatcc	cttgagtcag	tccacatccc	3120
aggatgctgg	gggactgagt	cctgggttct	ggcagactgg	tctctctctc	tctctttttc	3180
tatctctaat	ctttccctgt	tcagggttct	tggagaatct	ctgggaaaga	aaaaagaaaa	3240

actgttataa	actctgtgtg	aatggtgaat	gaatggggga	ggacaagggg	ttgcgcttgg	3355
cctccagttt	gtagctccac	ggcgaaagct	acggagttca	agtggggcct	cacctgcggg	3360
tccgtggcga	cctcctaaag	cttaagggag	catccggcat	agctcgatcc	gagccggggg	3420
ttttatccgg	cctgtcaatg	ctaagaggag	ccaaagtcac	ctaagggggg	goygccaggg	3480
gggcctctga	ctgatcccat	cacgggaccc	cctcccttgg	tttgtctaaa	aaaaaaaaaa	3540
gaagaaactg	tcataactgt	ctacatgcac	tggggtcaac	tgtttgtttt	atgtttattg	3600
ttctgttcgg	tgtctattgt	cttgttttag	ggttgcacag	gttttgcatg	tcaggagctc	3660
gatatgtccc	aagacgtctg	ggtaagaact	cttgcaaggt	ccttagtgct	gattttttgt	3720
cacagagagt	taaatttctc	ctcaatcatt	tgggtctggc	accacagtc	tgtctttttt	3780
gccagagagc	agtcagggtg	tgttacggga	atgagtgtaa	aaaaacattc	gcctgattgg	3840
gatttctggg	accatgatgg	ttgtatttag	attgtcatac	cccaacatcc	ggttgattgg	3900
acctctctca	aactaaactg	gtgggtgggt	caaaacagcc	acctgcaga	tttctctgct	3960
cacctcttgg	gtcatctctg	aacttttctc	gtgcctttaa	atagcacact	gtgtagggaa	4020
acctacccct	gtactgtctt	acttctgtta	gattcttaac	ctgtctctct	gtggctactc	4080
tcccatctta	aaaaagatcc	aagtgttctc	tttctctctc	cctgcccctc	accccaacaa	4140
tctgttttct	cagtgcgaca	gcaagttcag	cgtctccagg	acttggtctc	gctctcactc	4200
cttgaaacct	taaaagaaaa	agctgggttt	gagctatttg	cctttgagtc	atggagacac	4260
aaaaggtatt	tagggtagag	atctagaaga	agagagagaa	cacctagatc	caactgaccc	4320
aggagatctc	gggttgccct	ctagtccctc	tcctccaatc	ttaaagctac	agtgtatgtg	4380
caagtggtag	ttagctgttg	tggtttttct	gctctttctg	gtcatgttga	ttctgttctt	4440
tcgatactcc	agccccccag	ggagtggagt	tctctgtctg	tgttgggttt	gattctatag	4500
ttcaaatctt	attaaattgc	cttcaaaaaa	aaaaaaaaaa	gggaaacact	tctctccagc	4560
cttctaaggg	ttggagccct	ctccagtata	tgttgacaga	ttttctctct	ggtttctcag	4620
aggatttatg	agtcgcctct	aaaaaaggca	agctctggac	actctgcaaa	gtagaattgg	4680
caaagtttgg	agttgagtag	ccctctgaag	ggtcactgaa	cctcaccaat	gttcaagctg	4740
tgttgagggt	tgttactgaa	actccgggct	tcctctgata	gtttccctac	attgatcaat	4800
ggtctggttt	ggtcaggagc	acctcttcca	tgtctccact	catgcacact	tcataatttt	4860
acctccagg	tctctctgag	ccagaccgtg	ttttgcctcc	gacctccagc	cggttccagct	4920
cgcctctgtc	tgcctctctc	tgaagaagag	gagagtctcc	ctcaccagct	cccaacggct	4980
taaaaaccag	ctactccctt	aggtccatcc	catgtctctc	cggctatgtc	cctgtatggc	5040
tcatcaccac	ttgcctcttg	gttgcacccg	tgttgggagg	aagttagccc	tctactacca	5100
ctgagagagg	cacaagtcac	tctgggtgat	gagtgctcaa	cccccttctc	ggttttatgt	5160
cctttcttct	actttctgac	tgtataattg	gaaaaaccat	aactctccct	tctctgaaaa	5220
gccccagggt	ttgacctcac	tgaaggagtc	tgtactctgg	acacatttgc	ccccctggga	5280
tgaactgtcaa	cagctccctt	tgaacctttt	caactctgaa	gagagggaaa	gtatcccaag	5340
agaggccaaa	aagtacacac	tcacatcaac	caataggccg	gaggaggaag	ctagagggaat	5400
agtgattaga	gccccaatgg	ggacctaat	gggacccaaa	ttctccaagt	ggagggagaa	5460
cttttgacga	tttccacogg	tatctctctg	tgggtattca	gggagctgct	cagaaacctc	5520
taaacttctc	taagggagct	gaagtctgtc	aggggcattg	tgaagtcaca	ggagtgtttt	5580
tagagccact	ccagggaggt	tatgggattt	acaccccttt	tgaactggca	gccccggaaa	5640
atagccatgc	tcttaatttg	gcatttctgg	ctcaggccgc	cccgatagct	aaaagggaac	5700
tccaaaaact	agagggattt	tgttgggaat	aataccagtc	agctttttag	gatagcctaa	5760
aaggtttttg	acagtcaaga	ggttgaaaaa	caaaaaaacg	cagctcaggc	agctgaaaaa	5820
agccactgat	aaagcatctc	ggagtatcag	agtttactgt	tagatccagc	tcatttgaat	5880
tccctctcca	catgggtgtt	aaatccagct	acactacttc	ctgactcaaa	ctccactatt	5940
cctgttccat	actgtccagg	actgtttgaa	actactgaaa	ctggccgagc	tgatcttcaa	6000
aatgtgcccc	taggaagggt	ggatgcccac	gtgttcacag	acagttagcag	cttctctcag	6060
sagggactac	gaaagggcgg	tgcagctgtt	acctatggag	cagatgttgt	gtgggtctcag	6120
gctttaccag	caaacacctc	agcacaaaa	gctgaattga	tgcacctcac	tcaggctctc	6180
cgatggggta	aggtatttaa	cgttaaacact	gcacgcaggt	acgcctttgc	tactgtgcct	6240
gtactgtggg	ccatctacca	ggagcgtggg	ctactcacct	cagccaggtg	ctgttatcca	6300
ctgttaaggga	catcaaaaag	aaaacacggc	tgttgcctgt	ggttaaccaga	agctgatttc	6360
agcagctcaa	gatgcagtgt	gaatttccgt	cacgcctcta	aacttctctc	ccacagctct	6420
ctttccacag	ccagatctgc	ctgacaaatc	cgcatactca	acagaaagag	aaaactggcc	6480
tcaagactcc	gagcccaata	aaatcaggga	ggttgggtgg	ttcttctctg	ctctagaatc	6540
ttctacaccc	gaactcttgg	gaaaacttta	atcagtcacc	tacagtctac	caaccattta	6600
ggaggagcaa	agctacactc	gctctctcgg	agcgttttta	agatccccca	tcttcaagag	6660
ctaacagatc	aagcagctct	cgggtgcaca	acctgogccc	aggtaaatgc	caaaaaaggt	6720

cctaaaccca	gcccaggcca	ccgtctccaa	gaaaactcac	caggagaaaa	gtgggaatt	6780
gaatttacag	aagtaaaacn	acccggggct	gggtacaaat	accttctagt	actggtagac	6840
accttctctg	gatggactga	agcatttgc	acaaaaacg	aaactgtcaa	tatggtagtt	6900
aagtttttac	tcaatgaat	cctccctcga	cgtgggctgc	ctgttgccat	agggtctgat	6960
aattggacgg	ccttggcctt	gtctatagtt	tagtcagtca	gttaagggti	aaacattcaa	7020
tggaaagctcc	attgtgccta	togaccccag	agctctgggc	aagtagaacg	catgaactgc	7080
accctaaaaa	acactcttac	aaaattaate	ttagaaacgg	gtgtanattg	tgtaaagtctc	7140
cttcccttag	ccctacttag	agtaagggtc	accccttact	gggctgggtt	cttacccttt	7200
gaaatcatgt	atgggagggc	gctgcctctc	tggcctaagc	taagagatgc	ccaatggcca	7260
aaatcatcac	aaactaatit	attacagtac	ctacagtctc	cccaacagg	acangatatc	7320
atccrccac	ttgttccagg	accccatccc	aatccaatte	ctgaacagac	agggccctgc	7380
cattcaattcc	cgcacaggtg	cctgttgttt	gttaaaaggt	tccagagaga	aggactccct	7440
cctgcttggg	agagacctca	cacgctcatc	acgatgcca	cggctctgaa	ggtggatggc	7500
attctctcgt	ggattcatca	ctccgccttc	aaaaagggca	acggagccca	actagaacca	7560
tgggtccccc	gggttgggtc	aggcccttta	aaactgcacc	taagtgggtt	gaagccatta	7620
gattcaattct	ttttcttaat	tttgtaaaa	aatgcctagc	ttctgtcaaa	cttatgtatc	7680
ttaagactca	atataacccc	cttgtatata	ctgagggaatc	aatgatttga	ttccccaaaa	7740
acacaagtgg	ggaatgtagt	gtccaaacctg	gtttttacta	acccgtgttt	tagnctctcc	7800
cttcccttta	atcaactcagc	cttgtttcca	cctgaattga	ctctccctta	gttaagagcg	7860
ccagatggac	tccctcttgg	ctctttcact	ggcagccgct	tccctcaagga	cttaacttgt	7920
gcacagctgac	tcccagcaca	tccangaatg	caatttaactg	ataagctact	gtggcaagct	7980
atactccgag	ttcccaggaa	ttcgtccaat	tgettacacc	caaaagcccc	gcgtctatca	8040
ccttgtaata	atottaaagc	ccctgcacct	ggcaactatta	acgttccctgt	aacattttat	8100
cctttttacct	tttttgccca	ctttattttct	gtaaaattgt	tttaactaga	ccccccctct	8160
cctttctaaa	ccaaagtata	aaagcaaatc	tagncccttc	ttcaggccga	gagaatttcc	8220
agcgttagcc	gtctcttggc	caccagctaa	ataaacggat	tcttcaatgt	tctcaagtg	8280
tgggtttttc	totaactgc	tcaggtaaga	cctgtgtagt	attttcccca	acgtcttatt	8340
tttagggcac	gtatgttagg	taactttttat	gaagaaaccc	agtttaaggag	gttttgggat	8400
ttctcttate	aactgttaata	ctgtttttga	ttattttatt	atttatttat	tttttttgag	8460
aaggagtttc	actcttgttg	cccaggctgg	agtgcactgg	tgcgalkctg	gtcacttgc	8520
acttccgctc	cccaggttca	agcattcttc	ctgcctcagc	ctcgagagta	gtgggatta	8580
taggcctggc	ccaccacacc	cagctaatttt	tgtattttta	gtaaagatgg	ggtttcttca	8640
tgttggctca	gctgtgtctg	aactccccgc	ctagggtgat	ctgcgcgct	cggcctccga	8700
aagtyctggg	attacaggtg	tgtatccaca	cacccagccg	atttatatgt	atataaatca	8760
cattccctca	acaaaatgt	agtgtttcct	tccatcttga	atataggctg	tacaccccg	8820
gggtatggga	cattgttaac	agttagaaca	cagcagtttt	tatgtcatct	gacagcatct	8880
ccaaatagcc	ttcatggctg	tcactgcttc	ccaagacaat	tcaaatatac	acttcccggt	8940
gatgacttgc	tacttgctat	tgttaactta	tgtgttaagg	tggctgtttac	agacactatt	9000
agtatgtccg	gaatttcacc	aaattttagt	gggtcaaaac	atcattttat	tatgtatgtg	9060
gattctcatg	gtcaggtccg	gatttccagc	agggcacaaq	ggtagcccac	ttgtctctgt	9120
ctatgatgtc	tggcctcagc	acaggagact	caacagctgg	ggtctgggac	catttggagg	9180
cttgttccct	cccatctgat	acgtggcttg	ggatgttggg	agagggggtg	agctgagact	9240
gagtgcctat	atgtagtgtt	tccatatggc	cttgaacttc	ttacagcctg	gcagcctcag	9300
ggtagtccga	attcttcagg	ggcacagggc	tccagggcag	atgctgaggg	gtcttttatg	9360
aggtagccca	gcnaatccac	ccaggatc				9388

&lt;210&gt; 142

&lt;211&gt; 419

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 142

tgtaaagtca	gcagtgtgat	ggaaggaaatg	gtctttggag	agagcatatc	catctcctcc	80
tacttgcctc	ctaatgtcat	gaggtacact	gagcagaatt	aaacagggtg	gtcttaacca	120
cactatcttt	agctacottg	tcaagctaat	ggttaagaa	cacttttgg	ttacacttgg	180
tgggtcatag	aagttgtctt	ccgcaatcac	gcaatagtt	tgtgtgtaac	cagaaggagt	240
tacattatgg	tttcagtgct	attctttagt	taacttggga	gctgtgtaat	ttaagcttgg	300
cgattattat	caattctgtt	ctccacttat	gaagtgtatg	tgtgttccgg	tgtgtgtcgg	360

tgccgctgtg cttccggcag ttaacataag caaataccca acatcacact gctcgactt 419

<210> 143  
<211> 482  
<212> DNA  
<213> Homo sapien

<400> 143  
tgttaagtcca gcagtggtgat gtccactgca gtgtgttgct gggacacagt satgagcaca 60  
ttgtatacaa tggctagtac attgacggg atttgttga gctggtgagt gttatgaatt 120  
agcctgttag actagtctat gccatgggt ctggtcaact accgctctct cttttctcca 180  
gataaatccc ccattgctta tattctcttc caaacatact atcctcatca ccacatagtt 240  
cctttgttaa tgccttgctc tagactttcc cttttctgtt ttcttatcca aacctatata 300  
tccttgcata gattgttaat tcaaatgcc tcagggtgca ggcagttcat gtaagggagg 360  
gggctagcc agtagatct gcatacaact gctcgactta ca 402

<210> 144  
<211> 224  
<212> DNA  
<213> Homo sapien

<400> 144  
tcgggtgatg cctctcagg ccaagaagat aaagcttcag acccctaaca catttccaa 60  
aaggaaagaa ggagaaaaaa gggcatcctc ccggttcoga agggtcaggg aggeggaatt 120  
tgaggtggat tcacgagttg cggacaactc ctttgatgcc aagcgaggtg cagcgggaga 180  
ctggggagag cagagcaactc aggttttga gthcctctca gtgc 224

<210> 145  
<211> 111  
<212> DNA  
<213> Homo sapien

<400> 145  
agccatttac ccccatcca caaaaaaaa aaaaaaaag aaaaatata aggaataaaa 60  
atcgacttgc aacaaaaagg aacatttgcg ggctcgagga ggcatacccc g 111

<210> 146  
<211> 585  
<212> DNA  
<213> Homo sapien

<400> 146  
tagcatgttg agccagaca cttgtagaga gaggaggaca gttagaagaa gaagaaaagt 60  
ttttaaattgc tgaaggttac tataagaaag ctttggcttt ggaagagact tttaaagatg 120  
cagaggatgc tttgcagaa cttctaatat atatgcaggt gatccattat ttctctctag 180  
aaatttagtg atatttgaat taatgcccc acctaatatt ctctcgagga aaactattct 240  
acattactta agtaaggcat tatgaaaagt ttctttttag gtatagtttt tctaatttg 300  
gtttgacatt gcttcatagt gcctctgttt ttgtccataa tcgaagtaa agatagctgt 360  
ggaaaaacta ttacctaaat ttggtatgtt gttttgagaa atgtccttat agggagctca 420  
cctggttggt ttttaattat tgttctact ataattgagc taattataaa aaccttttg 480  
agacataatt taatttctct ttctctgtaa taatgatgat gatgtttct catgcatttt 540  
cttctgaatt gggacattg ctgctgtgtc tgggtccaca tgcata 585

<210> 147  
<211> 579  
<212> DNA  
<213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) .. (579)  
 <223> n = A,T,C or G

<400> 147  
 tagcatgttg agccacagaca ctgggcagcg ggggtggcca aggcagctcc tgcagagccc 60  
 aagcgtgttt gtctgtgag gacctgacg tcaactgcca ggcctagggag gggtaaatgt 120  
 ggagtgaaatg ttacacgaat ttccgaggag tgtgcagaag ccagggtgca cttgggtttgc 180  
 ttgtgttcat cccccctcaa gatctgcaca ctgcttccca aataaagcat caactgtcat 240  
 ctccagatgg ggaagacttt ttctccaccc agcaggcagg tcccaatcca ctccagcacc 300  
 agcacgtcca ccttctcggg cagacccaag tctccaaat tctgtgtgta caccgtgatg 360  
 atgtcagcaa agcgtttctg caggaccagg tgcaccgtgt gctgtgcat ctccactggc 420  
 tccacccgct acacccgtct aggcacggca tantgtgac agaanaaatg atgtccagt 480  
 cccacagccc acgtccaga ggaatttato cgtcagggat tctttattct gcaggatgac 540  
 ctgtggtatt aattgttctg gtctgggctc aactgtcta 579

<210> 148  
 <211> 249  
 <212> DNA  
 <213> Homo sapien

<400> 148  
 tgacaccttg tccagcatct gcaagccagg aagagagctc taccacagat cccacccccg 60  
 ttggacccag gatcttggac ctccaatctc cagaactgtg agaatataatg atttgttgtt 120  
 aaataaatct ttgtgttttc agatatttag ctatagcaga tcaggctgac taagaggaac 180  
 cccataagag ttacatactc attaatctcc gtctctatcc ccaggctctc gatgctggac 240  
 aaggtgtca 249

<210> 149  
 <211> 255  
 <212> DNA  
 <213> Homo sapien

<400> 149  
 tgacaccttg tccagcatct gctatcttct gactttttaa taatagccat tctgactggt 60  
 gtgagatggg aactcattgt gggtttggtc tgcatttctc taatgatcag tgatattaag 120  
 ctttttttaa atatgtttgt tgaccacatg tatatcatct tttagagagt gtctgttcat 180  
 atcctttgac cactttttaa tttttttatc ttgttaattt gtttaatttc cttacagatg 240  
 ctggacacgg tgtca 255

<210> 150  
 <211> 318  
 <212> DNA  
 <213> Homo sapien

<400> 150  
 ttaagctgca acaatgttga ggcacagctg ggatcaattc ttcattctaa ctggagagga 60  
 gggaagttca agtccagcag aggggtgggtg ggtagacagt ggcactcaga aatgtcagct 120  
 ggacccctgt ccccgcatag gcaggacagc aaggtctgtg ctctccaggy ccagctgaag 180  
 aacaggacac tgtctcggct ggcacaaagg gtcagagact cccatctttg aagcccggtc 240  
 ttcttggctt tctgtcactt cctgtttctg tttagagact gggtatagac aaggtctctc 300  
 caccgtgttg cagcgtaa 318

<210> 151  
 <211> 323  
 <212> DNA  
 <213> Homo sapien



<220>  
 <221> misc\_feature  
 <222> (1)...(323)  
 <223> n = A,T,C or G

<400> 151  
 tnaagcngcn acnntgtaga gagggaagg enttccccac attnccccc ttatcnagaa 60  
 ttattcnacc aagnttgacc natgccttt atgacttaca tgcnaactnc ntaatctgta 120  
 tcnngcctta aaagennntc caetacatgc ntcnccactg tntgtgtnac nlcataaact 180  
 gtongnaata ggggnccta actacagaaa tgcanttcac actgcttcca nlgccatcng 240  
 cgtgtggcct tncctactct tctttatctt caagtagcat ctctggantg cttccccact 300  
 ctccacattg ttgcagcat aat 323

<210> 152  
 <211> 311  
 <212> DNA  
 <213> Homo sapien

<400> 152  
 tcaagattcc ataggctgac cagtccagg agagttgaaa tcatgaagga gagtctatct 60  
 ggagagagct gtatgtttga gggttgcaa gacttaggat ggagttggtg ggtgtggtta 120  
 gtctctcagg ttgattttgt tcataaatt catgcctga atgccttgc tgcctcacc 180  
 tggccaggc cttagtgaac aactaaagt ctctgtcttc ttgctctcca aactctcct 240  
 gaggatttcc tcagattgtc taccatcaga tgaagccag ttggraaaca agatgcagtc 300  
 cagagggctc g 311

<210> 153  
 <211> 332  
 <212> DNA  
 <213> Homo sapien

<400> 153  
 caagattcca taggtgacc aggaggctat tcaagatctc tggcagttga ggaagtctct 60  
 ttaagaaact agtttaacca attgtttaa attttctgt ctacttcat ttctgtgcca 120  
 gttgatctct ggtgtcctt tttatcaatg agagtggga ctttccctac catgtttgat 180  
 aaatgttgc caggtctcat tgcacaact gtgtgtcca aaatgctgt ttatgtttta 240  
 aagacggacc tccacccttt gcttggctct aagtatgtat ggaatgttat gataggacat 300  
 agtagtagcg gtggtcagcc tatggaatct tg 332

<210> 154  
 <211> 345  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(345)  
 <223> n = A,T,C or G

<400> 154  
 tcaagattcc ataggctgac ctggacagag atctcctggg tctggcccag gacagcagcc 60  
 tcaagctcag tggagaaggt ttccatgacc ctccagattcc cncaaaactt ggattgggtg 120  
 acattgcac tccctagaga gggaggagat gtangtctgg gcttccacag ggaactggtg 180  
 ttttaggata aggtacccg tggcctgagg cttggatcat tcaagcctg ggggtggact 240  
 ggtgggcag ctgtggccc attgaatat gctctgggc actccctctg ttctanttg 300  
 aacttgggtg aggaacagga atgtggctca ontatggaat ctgga 345

<210> 155  
 <211> 295  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(295)  
 <223> n = A,T,C or G

```

<400> 155
gagcgttggc cacttgacac attaacacgt tttgcataat caactancatg tatttctagt      60
ttgctgtctg ctgtgatgac ctgacctgat tctctggcgt taatgatggc aagcatatc      120
aaacgctggt ctgttaattc caagttatga cgggcattga ttaaacgatt atctttcaca      180
actaaactgt tcttcataaa acagcccata ttattatcaa attaagagac aatgtattcc      240
aetatccitt aagggccata tatttnatgt cccttaatta agagctactg tccgt      295

```

<210> 156  
 <211> 406  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(406)  
 <223> n = A,T,C or G

```

<400> 156
gagcgttggc cacttgacac tgcagtggga aaacragcat gagccgctgc ccccaaggaa      60
cctcgaagcc caggaagagg accagccatc ccagcctgca ggtaaagtgt gtcacctgtc      120
aggtgggctt ggggtgagtg ggtgggggaa gtgtgtgtgc aaaggggggtg tnaatgtnta      180
tgctgttgag catgagtgat ggtcagtggt actgcattgc agggagtggt aacaagcgtg      240
cgggggtgtg tgtgcagtg cgtatgcata tgagaatatg tgtctgtgga tgagtgcatt      300
tgaaagtctg tgtgtgtgac tgtgtgcatg aaggttaatt antgactgag caggatgtgt      360
gagtgtgcac ggaacactca ntgtgtgtgt caagtggccn anogtc      406

```

<210> 157  
 <211> 208  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(208)  
 <223> n = A,T,C or G

```

<400> 157
tgacgttggc ccacttgaca caactaaagg tghtactcat caatttcttc tctctctggg      60
ggcatgtgag tgcactctatt cacttggcac tcatttgitt ggcagtgaat gtaanccana      120
tctgatgcac acaccagctt gtaaatgaa taaatgtctc taatactatg tgcctcacaat      180
aaggtanagg tgaggagaa ggyagaga

```

<210> 158  
 <211> 547  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> {1}...{547}  
 <223> n = A,T,C or G

<400> 158  
 cttcaacctc cttcaacctc cttcaacctc ctggattcaa acaatcated cacttcagac 60  
 tcttaagttag ctgagactac agactcagc cactacatct ggtataattt ttgtagagat 120  
 agggtttcab catgttgccc tyyctggtct caaactccctg acctcaagca atgtgcccac 180  
 ctacgctccc caaagtgcctg yyattacagc cataagccac catgcccagt ccatntttta 240  
 tctttcctac cacattctts ccaactttc ttttatgttt agatacatca atgtttacca 300  
 ttatgataca attgcacaca gtattaaagc agtaacatgc tgcacagggt tgtagcctag 360  
 gaacagttag caataccaca tagcttaggt gtgtggtaga ctataccatc taggtttgtg 420  
 taagttacac tttatgctgt ttacacaatg acaaaacocat ctaatgatgc atttctcaga 480  
 atgtatctt gtacgtaagc tatgatgtac agggacact gcccaaggac acagatattg 540  
 tacctgt 547

<210> 159  
 <211> 203  
 <212> DNA  
 <213> Homo sapien

<400> 159  
 gctctctctt cttacccac tcccccagta tgtcagcaat tttatcrgct ttacctaaga 60  
 aacagcctgt atccaaacac ttaacacact caccigaaa gttcaggcaa caatcgctt 120  
 ctcatgggtc tctctgctcc agttctgaac cttctctctt tccatgaaca tgcatttarg 180  
 tgcatagaag ttcctctcag tgc 203

<210> 160  
 <211> 402  
 <212> DNA  
 <213> Homo sapien

<400> 160  
 tgtaaagtga gcagtgtgat ggggggaaca ggggtgttag cagtaattgc aaactgtatt 60  
 taaacaatca taataatatt tagcatttat agagcacttt atatcttcaa agtacttgca 120  
 aacattayct aattaaatac cctctctgat tataatctgg atacaattgc acctaaactc 180  
 aggcacaggt catgagaca gtatgcattt gaaagttagt gctagctatg cttaaaaaac 240  
 ctatacaatg atgggaaagt tagagttcag actctgttgg actgthtttg tgcatttcag 300  
 ttcagcctga tggcagaatt agatcatatc tgcactcgat gcctytgctt gataacttat 360  
 caatgaactc tgagtgttga tcatcacact gctcgactta ca 402

<210> 161  
 <211> 193  
 <212> DNA  
 <213> Homo sapien

<400> 161  
 agcatgttga gccagacac tgaccaggag aaaaaccaac caatagaaac acgcccagac 60  
 actgaccagg agaaaaaca acaataaaa acagggcccg acataagaca aataataaaa 120  
 tttagcggac aggcacatga aacagctatt gtaagagcgg atatagtgtt gtgtgtcttg 180  
 gctccacatg cta 193

<210> 162  
 <211> 147  
 <212> DNA  
 <213> Homo sapien

<400> 162

```

tgttgaqccc agacactgac caggagaaaa accaaccaat aaaaaacaggo caggacataa    60
gacaaataat aaaattagcg gacaaggaca tgaaaacago tattgtatga gaggatatag    120
tgggtgtgtg ctgggtctca catgcta                                147

```

```

<210> 163
<211> 294
<212> DNA
<213> Homo sapien

```

```

<400> 163
tagcatgttg agcccagaca caaatctttc ctttaagcaat aaatcatttc tgcataatgtt    60
tttaaaacca cagctaaagcc atgatttattt aaagaggacta ttgtatttggg tatttttgatt    120
tgggttctta tctccctcac atttatcttca tttctatcat tgacctctta ccccagagac    180
tctcaaacctt ttatgttata caaatccacat tctgtctcaa aaaatatctc acccaattct    240
cttctgtttc tgcgtgtgta tgtgtgtgtg tgtgtgtgtg ggtcaaacat gcta                294

```

```

<210> 164
<211> 412
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(412)
<223> n = A,T,C or G

```

```

<400> 164
cgggatttggc tttagatgac agatgctgac tgtgacggca cccggcgttg aacagaaagc    60
caacttggctg caagtgcgcc agagccggcc tgactacgtg ctgctgttgg gctggggcgt    120
gatgaactcc accgccttga aggaagccca ggccacggga taaccccgcg acagatgta    180
cggcgtgttg tgggcgggtg cygagcccca tgtgctgac gtgggcgaag gcgccagggy    240
ctacaacggc ctggctctga accgctacgg caacgagtcg aagtgatcc angacatcct    300
gaancccgty caagacaagg gncagggcac ggggcacaaa gacgaagtgg gctcgggtgt    360
gtacacccgc ggcgtgates tccagatgct ggcacaggty tcaatcacta at                412

```

```

<210> 165
<211> 361
<212> DNA
<213> Homo sapien

```

```

<400> 165
ttgcaacttt gtccagcacc tgcattctgat gagagcttca gatggctacc actaatggca    60
gaaggcaag gagaacaggc attgtatggc aagaaaggaa gaagagaga gggagagag    120
gtgctagggt cttttcaaca accagtctct gatggaactg agagtaagag ctcaaggcca    180
ggtgtggtga ctcaaacag taatcccaac attttaggag gctgaggcag gcagatgtct    240
tgaccccatg agtttctgac cagcctgaac aacatcatga gactccatct ctacaataat    300
tacaanaatt aatcaggcat tgtggtatgc cctgtagtcc cagatgtctg acaaggtgtc    360
a                                361

```

```

<210> 166
<211> 427
<212> DNA
<213> Homo sapien

```

```

<400> 166
twgactgact catgtccctt scaccccaact atcttctcca ggtggccagg catgatagaa    60
tctgatccct acttagggga ctattttctt ttacttccc atcttgatct cctgcgggtg    120
agtttccctg ttccaggtta gaaaggagct caggccaaag taatgaacaa atccatctct    180

```

```

acagacgtac agaataagag aacwtggacw tagccagcag aacmcaaktg aaamcagaac 240
mottamctag gatracaaac merraratar ktgcycmcmc wtataastga aaccaaactt 300
gtatotaatt aatatrttat ccacygtcag ggcattagt gttttgataa atacgctttg 360
gtcaggcttc ctgagggttag aatggaaaraa caattgcama gagggtaggg gacatgagtc 420
aktctaa 427

```

```

<210> 167
<211> 500
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

```

```

<400> 167
aaagtgcgat gctcccgccc gccatggcgc cgggatagac tgactcatgt cccctaagat 60
agaggagaca cctgctaggt gtaaggagaa gatggttagg tctaaggagg ctccagggtg 120
ggagtagtgc cctgctaagg gagggtagac tgttcaacct gtctctgctc cggcctccac 180
tatagcagat ggcagccgga gtagggagga gggaggtaag agtcagaaag ctatgtttgt 240
tatgcgggga aaagcortat cgggggcagc ctagttatta ggggacantt tagwyartow 300
agntagcatt caaagcgnag gatttntccc atatggttgg acctgcagga ggcgcatta 360
gtgatttaga tgtgagcccc agacacgcct agcaacaaag acctaaactc agatcctgtg 420
ctgattactt aacatgaatt atgtatttta ttttaacaaat ttgagttatg aggcattatta 480
ttaggtccat attaccggga 500

```

```

<210> 168
<211> 358
<212> DNA
<213> Homo sapien

```

```

<400> 168
ttcatcgttc ggtgactcaa gctgttaac ccagacattt ggggggcaga ggggagcaga 60
tcacctgagg ttgggagttt gagaaccagc tggccaacat ggtgacaaac cgtctotgct 120
aaaaatacaa aaattagcca agcatgggtg catgcaactt taatccagca tantcgggag 180
gctgaggcag gagactcaat tgaggccagg aggcagaggt tgcagttagg cagaggttta 240
gatcatgcca ctgcactcaa gcttgggcaa cagagtaaga ctccatctca aaaaaaaaaa 300
aaaaaaagaa tgatcagaga cacaatatca gaaaaccttg agtcaccagc cgtatgaa 358

```

```

<210> 169
<211> 1265
<212> DNA
<213> Homo sapien

```

```

<400> 169
ttctgtccac accaatotta gagctctgaa agaatitgtc tttaaatata ttttaatagt 60
aacatgtatt ttatggacca aattgacatt ttcgactatt ttttccaaa aaaagtccag 120
tgaatttcag cacactgagt tgggaatttc ttatcccaga agwccgcacy agcaatttca 180
tatttattta agattgatto cataactcgt tttcaaggag aatccctgca gtctcettta 240
aggtgagaca aatactttct attttttttt cccatttgtg ggatttggact ttaagagggtg 300
actctaanaa aacagagaaac aaatatgtct cagtgtgtatt aagcaccggac ccatatttct 360
atatccactt aaaaaaatga ttctctgtgc acotttttggc aacttctctt ttcaatgtag 420
gaaaaaaact agtcacccctg aaaaaccaca aataaataa aacttgtaga tgtgggcaga 480
argtttgggg gtggacattg tatgtgttta aattaaacc ttgtactctg agaagctgtt 540
ghatgggtca gagaaaatga atgcttagaa gctgttccaa tottccagag cagaagcaca 600
ccacatgtct cagctatatt attattttat ttttatgcct aaagtgaato attttttctg 660
tattaattto caaaggggtt tacctcttat ttaaatgctt tgaaaaacag tgcattgaca 720

```

```

atgggttgat attttctctt aaaagaaaaa tataattatg aaagccaaga taatctgaag 785
ccgtgtttat tttaaaactt ttatgtttct gtgggtgatg ttgtttgttt gtttgtttct 845
aattgtttgg ttttttactt tgttttttgt ttgtttttgt ttgggttttg catactacat 905
gcagttttctt taaccaatgt ctgtttggct aatgtaatta aagttgttaa tttatatggg 965
tgcaattcaa ctatgtcaat ggtttcttaa tatttatbgt gtagaagtac tggtaatttt 1025
tttatttaca atatgtttaa agagatanea gtttgatag tttcatgtg tttatagcag 1085
aagttattta tttctatggc attccagcgg atattttggt gtttgcgagg catgcagtca 1145
atattttgta cagttagtgg acagtattca gcaacgctg atagcttctt tggccttatg 1205
ttcaataaaa agacctgttt gggatgtaaa aaaaaa aaaaaa aaaaaa 1265
aaaaa

```

&lt;210&gt; 170

&lt;211&gt; 383

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 170

```

tgtaagtcca gcagtgatga gacgatattc ttcttattaa tgtggttaatt gaacaaatga 60
tctgtgatac tgatcctgag ctaggaggcg ctgttcagtt aatgggactt ctctgtactc 120
taattgatcc agagaacatg ctggtacaaa ctatataaac cgaanaaagt gaatttttaa 180
attttttcta caaccattgt atgcatgttc tcacagcacc aattttgacc aatctttcag 240
aagacaaatg tgaasaggat aatatagttg gatcaacaaa aaacaaacaa atttgtcccg 300
ataattatca aacagcacag ctacttgctt taattttaga gttactcaca ttttgtgtgy 360
aacatcacac tgcctgactt aca

```

&lt;210&gt; 171

&lt;211&gt; 383

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 171

```

tggggacctt caatatogca agttaaaat aatgttgagt ttatttatct ttgacctgt 60
ttagctcaac aggggtgaag catgtaaaga atgttgactt ctgaggaaat ttctttttaa 120
aagaaacata tgaagtaca ttttaattac tcaaggacta ctitttggtg aagttttata 180
tctagatacc tctacttttt gtttttgtg ttgacagatt cacaagaccc ttacgcaatt 240
taccaggtaa aatcgttgaa ctagtggagg tgaactgaa atttaaaatt attctgtaaa 300
tactataggg aagaggctg agcttgaat ctitttggtg ttcatgtgtt ctgtgtcttt 360
atcatcacac tgcctgactt aca

```

&lt;210&gt; 172

&lt;211&gt; 699

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(699)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 172

```

tgggttgatg cctctcagg ctgtctgta gtgtcacag agctgtctat gaagcgacag 60
cgtctgccc ttggcactta gaacctctc ctctcacatt ttgttgagct tctgaatcta 120
ggtctgcatg ctggcgagg ctctggcaca ggctcctgy aaagtttctc aggtatggga 180
gaactctggt tcttgagcca ggcactaaat gaactgctca tctctgtgtt catggagcat 240
ggcagcagca tcacacgact ctgtgtgtg tctgtctgc tgggtgtcaa cgcctgtctc 300
tcagcagctc tgtacgggt gacgtcaca gcgccttct tctgtgtcac attgtcatt 360
ggcctggcca ttggcctgta ctatggcag cyctagtccc tgacaaatto caacctgatt 420
cgggacctg tagattggga gcaaccaca gatccacctc ccaggacctc ctccctctcc 480

```

```

catcagcggc cctgtaccaa gtgccttggt agaaaagctg gagaggtgag ggcagcccag 540
ttattctctg gaggttggty gatgaagggg tccccctagg agatgtgag tgtgggtttg 600
grraaggaaa tgcctaacct ccccccccc caaccaggtt ntccagact aaagaattaa 660
ggtaacctca atacctaggt ctgaggaggc atcacccga 690

```

```

<210> 173
<211> 701
<212> DNA
<213> Homo sapien

```

```

<400> 173
tcgggtgatg cctcctcagg ccagatcaaa cttgggggttg aaaactgtgc aaagaaatca 60
atgtcggsga aagaattttg caaaagaaaa atgcctaata agtactaat taataggtca 120
cattegcagt ggaagaagaa atgttgatat ttatgtcag ctatthtata atcaaccagag 180
tgcttagctt catgttaagc atctoghatt catlagaaat aagaacaatt ttattogtcc 240
gaagaacctt ttcaatttat agcatcttaa ttgcacagga ttitaaattt tgataaagaa 300
agctccactt ttggcaggag tagggggcag gpagagagga ggtccatcc ccagggacag 360
agacaccagg gccagtaggg tagctggttg ctggatcagt cacaacggac tgacttatgc 420
catgagaaga acaaacctcc aatctcagt tgcctaatat aacacagct cattctctgc 480
tccggttaca tctcttatgt agatcaacag caggtagctc agggaccag gctccatctc 540
catatgagct tccatagtna ccaggacag ggctctgaan gtgtcctcca tgcagggaca 600
catgctctt cctttcattg ggcagagcaa gtcaattatg gccagaagtc acactgcagg 660
gcagtgocat notgtgttat gctgaggag gcataccccc a 701

```

```

<210> 174
<211> 700
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> [1]... (700)
<223> n = A,T,C or G

```

```

<400> 174
tcgggtgatg cctcctcagg ccctaaatc agagtcagg gtccagagcca caggagacag 60
ggaagacat agatttaac cggccccctt caggagattc tgaggctcag ttcaatttgt 120
tgcagtttga ccagaggcag caaggtcagt ggttaggggc acggtctcta asgtgcact 180
gcctgggatg gctccacagc tctgccagga accagctgag tggccttgag ctgctgacac 240
gcagaaagcc cctgtgggc ccagtcctct cgtctgtlaag atgaggacag gactctagga 300
acctttccc ttggtttggc ctcaatttca caggcttcca tottgaactc tatctactct 360
tttctgaaa ccttgaaaa gaaaaaagt ctagcctggg caacatggca aaacctgtc 420
tctacaaaa atacaaaaat tagttgggtg tggtygcatt tgcctgtagt ccagccact 480
tgggaggtgc tgaggtgga ggtacactg agccgggag gtgaggttg cagttagcca 540
agatcactgc actgcactcc agcctgagta atagagtaag cctctgtctc aaaaacacaa 600
acaacaacag tgagtgtgac tctgtttccg ggttggatgg ggcaccacat ttatgcactc 660
ctcagatttg gacgtgcag cctgaggagg catcacccga 700

```

```

<210> 175
<211> 484
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> [1]... (484)
<223> n = A,T,C or G

```

<400> 175  
 tataggggcga attggggccc agttgcctgn tcccgggccc catggccgcg ggattcgggt 60  
 gatgctctct caggcttctc tgcacaaagc tactctctct agtcagaaa gtgcaccttg 120  
 atgagggaaa atgtctact gactgcgaa ttctcagtt caattttac tccagtcct 180  
 ccttctaaac cagttaataa attcattcca caagtattta ctgattacct gcttgtcca 240  
 gggactatc tcaggctgaa gaaggtggga ggggagggcg gaacctgagg agccacctga 300  
 gccagcttta tttttcaac atggctggcc catctgagag catctccca ctctcgccaa 360  
 cctatcgggg catagcccag ggtatgcccc agggggcccc ggttagatgc gtccctttgg 420  
 ctgtcagtg atgacataa ctttagctgc ttagtgggtg ctggcctgag gaggcacac 480  
 ccga 494

<210> 176  
 <211> 432  
 <212> DNA  
 <213> Homo sapien

<400> 176  
 togggtgatg cctcctcagg gctcaaggga tgagaagtga cttctttctg gagggaacct 60  
 tcatgccacc caggatgaaa atggataggg acccacttgg aggccttgct gatagtgttg 120  
 gacaaatgac aggtagcgga attggtactg gtccaggagt tatccaggat agattttcac 180  
 ccacctggg acgtcatcgt tcaactcaac tcttcaatgg ccaiggggga cacatcatgc 240  
 ctcccacaaa atgcagcttt ggagagatgg gaggaagtt tatgaaaagc caggggctaa 300  
 gccagctcta ccataaccag agtcagggaac tcttatccca gctgcaggga cagtgcagg 360  
 atatgccacc tgggtttctt aagaagggaac agcttaatgc agatgggatt agcctgagga 420  
 ggcatcacc ga 432

<210> 177  
 <211> 788  
 <212> DNA  
 <213> Homo sapien

<400> 177  
 tagcatgttg agccacagaa cagttagcatt tgtgccaat tctggttgga atggtgacaa 60  
 catgcctggg ccaagtgtca acatgccttg gtccaagggg tggaaagtca ccgtgaagga 120  
 tggcaatgac agtggaaaca cgtctgctga ggtctatggc tgcctcctac ncccaactcg 180  
 cccaaatgac aagcccttgc gctgctctc ccaggatgtc taccaaaattg gtggtatttg 240  
 tactgttct gttggccgag tggagactgg tgtctcaca cccggtatgg tggtcacctt 300  
 tctccagtc aacgttacaa cggaaagtaa ctctgkcgaa atgcacctg aagcttttag 360  
 tgaagctctt cctgggggaa atgtggcctt caatgkcaag aatgtgtctg tcaaggatgt 420  
 tegtctggc aacgttgetg gtgacagcaa aaatgaccaa ccaatggaag cagctggctt 480  
 caatgctcag gtgattatcc tgaacccatc aggcacaata agtgcaggct atgcccctgt 540  
 attggattgc caacaggctc acattgcatg caagtttctt gagctgaggg aaaagattga 600  
 tggcctttct ggtaaaaagc tggagatgg ccctaaatc ttgaagtctg gtgtctctgc 660  
 cctgtttgat atgttctctg gcaagccat gtgtgttgag agcttctcag actatccacc 720  
 ttgggtctgc tttgtgttgc gtgatgtgag acagacagtt cgggtgggtg tctgggtctc 780  
 acatgcta 788

<210> 178  
 <211> 786  
 <212> DNA  
 <213> Homo sapien

<400> 178  
 tagcatgttg agccacagaa cctgtgttgc tgggagctct ggcagtgagg gattcctagg 60  
 caattgggct gacctttgaa tgacacactt gcttttatta gattcactag tttttaaaa 120  
 attgttgttc gtttcttttc attaaagggt taatcagaca gctcagacag cataattttg 180  
 ttttaaatga cagaaacggt ggtacatttc ttcatgaatg agcttgcatc ctgaagcag 240  
 agctacaaa aggcacttgt tctaaatgaa agttctggtc ctgagggcca gtactctgga 300



gtttcagagc	agccagtgat	tgttccagtc	agtgtatgect	agttatatag	aggaggagta	360
caatgtgcac	tottctaggt	gttaaggttat	gcaactttgg	atcttaaat	tctgtacaca	420
tacacacttt	atataatgt	atgtatgtat	gaaaacatga	aattagtttg	tcaaatatgt	480
gtgtgtttag	tatttttaget	tagtgcaact	atttccacat	tatttatpaa	attgatctaa	540
gacactttct	tgttgcaccc	tggmatatta	atgttcaagg	gtgcaatgtg	tattccctta	600
gattgtttaa	gcttaattac	tatgatttgt	agtaaatlta	cttttaaat	gtatttgagc	660
ccctctgtag	tgtcgtaggg	ctcttacagg	gtgggaaaga	ttttaatttt	ccagttgcta	720
attgaacagt	atggcctcat	tatatatttt	gatttatagg	agtttgtgtc	tgggtcaac	780
atgcta						796

&lt;210&gt; 179

&lt;211&gt; 796

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 179

tagcatgttg	agccagagca	ctggttaaca	gaccagacct	gcttctctca	tatgtaaaca	60
gcttttaaaa	agccagtgaa	ccfttttaast	actttggcaa	ccttctttca	caggtcaaga	120
acacccccat	ccgccccttg	tctggagtgc	agagtttggc	tttggttctt	tgccttgcc	180
ggagtatact	tctaatctct	gttgtctctg	acaagctgaa	tacagagcta	cccacgcaca	240
ccagggccag	gtttccactc	ctttattact	ttatgtttct	gttccattgc	tggctcacag	300
aaataagttt	tcctttggag	gaatgtgatt	ataccctttt	aatttctctc	ttttgttttt	360
ttttaaatatc	atttgtatgt	gtttggccca	gaggaaactg	aaattcacca	tcattctgac	420
tggcaatccc	attaccatgc	tttttttaaa	aaacgtaatt	tttcttgcc	tacattggca	480
gagtagccct	tcctggctac	tggttaaatg	tagtcactca	gtttctaggt	ggcattagga	540
atgagccctg	agcacacagc	tgtcttaaca	caaaagggtga	caagatctca	aaccttagcc	600
aaagggctat	gtcaggttcc	aatgtctctc	gcttctgttc	ctgctcaatg	ttctggattt	660
tgtccttctt	catccctage	accagaattt	cccagtcctc	ctccctacct	cccttggttt	720
taattctaat	ctatcagcaa	aataactttt	caaatgtttt	aaacggctac	tccatgtgtc	780
tgggtcaaac	atgcta					796

&lt;210&gt; 180

&lt;211&gt; 480

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 180

ggatgtgtgt	caaggcgatt	aagttgggta	acgcacaggt	tttcccagtc	acgaagttgt	60
aaacagaggg	ccagtgcaat	gttaatacag	tcactatagg	gcgaaktggg	ccgacgctcg	120
catgtctccg	gcccacatgg	ccgcgggata	gcattgttag	cccagccacc	tgcaggtcat	180
ttggagagat	ttttccagtt	accagcttga	tggctctttt	caggagagga	gcacatgagc	240
actcccaagg	tgagggttga	gatttctctc	agatagccgg	ataagaagac	taggagggat	300
gcctagaaaa	tgattagcat	gcaaatctct	acctgcaatt	tcagaactgt	gtgtcagccc	360
acattcagct	gcttcttctg	aactgaaaag	agagaggtat	tgagaacttt	ctgatggccg	420
ctctaaccatt	gtaacacagt	aattctgtgt	tgtgtgggtg	tgtgtgtgtg	tctgggctca	480
acatgcta						480

&lt;210&gt; 181

&lt;211&gt; 317

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 181

tagcatgttg	agccagagca	cgggcagcgt	acctgatgag	tgggtgtgtg	gcacctgtga	60
aaagggagga	cgctatcccc	catgatattg	gggccccaga	tgatgaacca	tggctccggg	120
tcactgcata	tttaattcat	gatactgtgt	atttgaagga	cctgaacctg	aagtttctgc	180
tgcaggttta	tccggactat	taactcaggg	gtgatcaaaa	cttctctgaag	gacatgtggc	240
ctgtgtgtct	agtaagggat	gcacatgcag	tggccagtgt	gccaggggta	tggtttgggt	300